Mobil Oil Corporation

2063 MAIN ST., SUITE 501
OAKLEY, CALIFORNIA 94561

STID 1683

April 19, 1996

Ms. Susan Hugo
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6700

Re: Former Mobil station 99-105, 6301 San Pablo Ave, Oakland, CA

Dear Ms. Hugo:

Enclosed is a copy of the Additional Tank Closure and Preliminary Site Investigation Report, dated April 17, 1996, for the above referenced location. This report details field activities completed on site on behalf of Mobil Oil, including tank excavation samples, product line removal, and monitoring well installation and sampling.

This site qualifies as a low risk groundwater case, based on the results of this investigation.

- The site has not been used as service station since 1980.
- The tanks and source to groundwater, i.e. impacted soil, have been removed. No free product was observed, and no future sources are present.
- Soil and groundwater impact have been adequately defined.
- Impacted soil was removed from the site, eliminating exposure pathway associated with soil. Thus no significant risk to human health is present.
- The groundwater is encountered at less than 10 feet below grade, therefore it is unlikely that this aquifer is as a potable source, and no significant risk to human health is present.

Considering these facts, we propose to conduct quarterly monitoring for a period of one year to demonstrate that site conditions will remain stable or improve over time. Groundwater will be analyzed for TPH-G and BTEX by 8015/8020. Concurrently, we will conduct an audit to confirm that no water wells, deep drinking water aquifers, surface water or other sensitive receptors are likely to be impacted. Additional investigation is not warranted at this time.

Should you have any questions or comments regarding this investigation, please call me at (510) 625-1173. I look forward to hearing from you regarding the proposed sampling schedule. Thank you for your cooperation.

Sincerely,

Cherine Foutch

Cherine Foutch
Project Engineer

Enclosure

cc: Kevin Graves, RWQCB - SF Bay Region
Ken Evans, ECRU Inc.
Al Arechiga, Ritchie & Ritchie
Ken Simas, Alisto Engineering Group (w/o enclosure)

ADDITIONAL TANK CLOSURE AND PRELIMINARY SITE INVESTIGATION REPORT

Former Mobil Oil Corporation Station 99-105
6301 San Pablo Avenue
Oakland, California

Project No. 10-309-01-006

April 1996

ADDITIONAL TANK CLOSURE AND PRELIMINARY SITE INVESTIGATION REPORT

Former Mobil Oil Corporation Station 99-105
6301 San Pablo Avenue
Oakland, California

Project No. 10-309-01-006

Prepared for:

Mobil Oil Corporation
2063 Main Street, Suite 501
Oakley, California

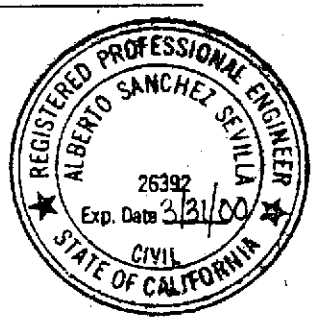
Prepared by:

Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California

April 15, 1996

Ken Simas
Project Geologist

Al Sevilla, P.E.
Principal



CONTENTS

CONTENTS
(continued)

FIGURES

APPENDICES

1.0 INTRODUCTION

Mobil Oil Corporation retained Alisto Engineering Group for additional underground storage tank closure activities and to perform a preliminary site investigation at former Mobil Oil Station 99-105, 6301 San Pablo Avenue, Oakland, California. A site vicinity map is shown on Figure 1.

1.1 Purpose and Scope of Work

This work was performed to: (1) remove the former fuel delivery pipelines; (2) assess the nature and extent of petroleum hydrocarbons in the subsurface soil and groundwater at the site; and (3) develop a course of action to comply with applicable laws and regulations. The scope of work for the additional tank closure activities and preliminary site investigation was presented in the work plan dated October 5, 1995 and subsequently approved by the governing regulatory agencies.

The tasks performed as part of the tank closure activities included the following:

- Collected additional compliance soil and water samples from the former tank excavations at the site.
- Analyzed stockpiled soil for disposal.
- Removed the product lines and collected compliance soil samples.
- Analyzed the soil samples for specific hydrocarbon constituents.
- Backfilled the excavations.
- Evaluated the data and analytical results.

After the additional tank closure activities were completed, the following tasks were performed as part of the preliminary site investigation:

- Drilled four exploratory soil borings and collected soil samples.
- Converted the soil borings into Groundwater Monitoring Wells MW-1 through MW-4.
- Developed and surveyed the monitoring wells and collected groundwater samples.
- Analyzed the soil and groundwater samples for specific hydrocarbon constituents.
- Evaluated the data and analytical results.

This report presenting the findings and conclusions of the additional tank closure activities and preliminary site investigation also includes pertinent information from available reports and information. The work was performed in accordance with the guidelines and

requirements of the Alameda County Health Care Services Agency (ACHCSA) and the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB).

1.2 Site Location and Description

The property is currently a vacant lot on the northwest corner of 63rd Street and San Pablo Avenue, Oakland, California. The site was a Mobil Oil service station from 1951 to 1980 before being used as a car rental lot. The underground storage tanks were not in use after 1980. The former service station and wash area building have been secured by an 8-foot-high plywood fence along 63rd Street and San Pablo Avenue.

Properties neighboring the site are both commercial and residential developments. Commercial properties are to the north and northeast across San Pablo Avenue. To the southeast, across San Pablo Avenue, is an elementary school and to the west, south, and southwest are residential properties.

1.3 Project Background

In August 1994, five underground storage tanks: four 2000-gallon gasoline tanks and one 350-gallon waste oil tank, were removed from the site by Tank Protect Engineering, Union City, California. Holes were observed in two of the gasoline tanks. Analysis of soil samples collected from beneath the tank excavation at 11 feet below grade detected petroleum hydrocarbons of up to 520 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPH-G), 0.18 mg/kg benzene, 4.1 mg/kg toluene, 24 mg/kg ethylbenzene, and 72 mg/kg total xylenes. TPH as diesel (TPH-D) at a concentration of 1.2 mg/kg and total oil and grease (TOG) at 94 mg/kg were also detected in the soil sample collected from the former waste oil tank location at a depth of 6 feet. Liquid-phase petroleum hydrocarbon was observed in the groundwater in the excavation (ACHCSA, 1994). The results of soil sample analysis are presented in Table 1.

2.0 FIELD METHODS

The field methods for the additional tank closure activities and preliminary site investigation are described below.

2.1 Additional Tank Excavation Compliance Soil Sampling

On January 4, 1996, additional compliance soil samples were collected from the underground storage tank excavations. Two samples were collected from the gasoline tank excavation along the north and south sidewalls, and one was collected from the east and west sidewalls. Two compliance samples were collected from the bottom of the waste oil tank excavation. A grab sample of water present at up to approximately 6 feet below grade in the gasoline tank excavation at the time of sampling was collected for analysis.

On February 13, 1996, the standing water in the gasoline tank cavity, which had risen to approximately 3 feet below grade, was pumped out by Ramcon Engineering and

On February 14, 1996, compliance soil samples were collected from the bottom of the gasoline tank excavation after the water was pumped out. The locations of the compliance soil samples are shown on Figure 2.

All compliance soil samples were collected by hand augering to a minimum of 1 foot into native material. After augering to the desired depths, samples were collected using a hand sampler lined with stainless steel tubes. A slide hammer was used to advance the sampler 6 inches into undisturbed soil. The auger and soil sampler were decontaminated before each sample was collected. The samples were packed in an ice cooler and transported to a state-certified laboratory following chain of custody procedures.

2.2 Excavation and Removal of Product Lines and Compliance Soil Sampling

On February 14, 1996, an Alisto representative and Ms. Susan Hugo of the ACHCSA observed the excavation and removal of three 2-inch-diameter fiberglass and two 2-inch-diameter steel fuel pipelines.

The condition of the piping was noted before loading and hauling offsite. No holes were observed in the fiberglass piping. The steel piping showed signs of rust and staining was apparent at the pipe stub-ups near the northwest end of the former dispenser island. The piping was transported by an approved hazardous waste hauler to a designated facility for disposal. Copies of the disposal and uniform hazardous waste manifests for the piping are included in Appendix A.

The excavation of the product lines was approximately 3 feet wide by 3 feet deep by 50 feet long, from the southeast corner of the gasoline tank excavation to the dispenser islands. An area of approximately 11 feet wide by 5 feet deep by 16 feet long was over-excavated near the northwest end of the former dispenser island to remove apparent petroleum impacted soils. Approximately 49 cubic yards of soil was excavated and stockpiled onsite adjacent to the existing stockpiled soil. The stockpiled soil was covered with plastic sheeting while awaiting laboratory results for disposal.

On February 14 and 15, 1996, compliance soil samples were collected every 20 linear feet from the former product line excavation and analyzed for specific hydrocarbon constituents. The procedures for soil sampling are presented in Appendix B. The locations of the compliance soil samples are shown on Figure 2.

2.3 Backfilling of the Excavations

On February 15, 1996, the tank excavations and product line trenches were backfilled to grade with approximately 18 cubic yards of imported clean backfill material. The tank excavation was backfilled to approximately 5 feet below grade with gravel and then backfilled to grade with clean import fill.

2.4 Stockpile Soil Characterization and Removal

On January 4, 1996, and March 1, 1996, the stockpiled soil from the gasoline and waste oil tank excavations (SP-1 through SP-12 and W0-1-1), and the stockpiled soil from the product line excavation (SPPL4-1-4) was sampled to analyze the petroleum hydrocarbon concentrations in the soil for disposal. Before sampling the stockpiles, the volume of soil was estimated to determine the number of samples to be collected based on the requirements of the disposal facility and/or regulatory agencies.

On February 14 and 15, 1996, stockpiled soil from the tank excavations and product line trench excavations was removed along with associated asphalt and concrete. The stockpiled soil from the waste oil tank and over-excavation of the product line remaining on site are anticipated to be removed and disposed of by mid-May 1996.

2.5 Drilling and Sampling

On March 1, 1996, Soil Borings MW-1 through MW-4 were drilled to depths ranging from 21.5 to 26.5 feet. Drilling was performed by V&W Drilling, Rio Vista, California, using a BK-81 drilling rig equipped with 10-inch-diameter hollow-stem augers. Soil samples were collected at 5 feet below grade to the total depth of the borings. Each soil sample was field screened using a Thermo Model 580B organic vapor meter. The drilling and soil sampling procedures are presented in Appendix B.

The soil samples were described in accordance with the Unified Soils Classification System and color, moisture, density, and consistency were documented on the boring logs. The boring logs are presented in Appendix C.

2.6 Monitoring Well Installation and Construction

On March 1, 1996, the soil borings were converted into Monitoring Wells MW-1 through MW-4. The wells were constructed of 4-inch-diameter, flush threaded, Schedule 40 PVC casing. Solid casing was installed from the surface to 5 feet below grade, and 0.010-inch slotted screen was installed from 5 feet to the total depth of the boring at 20 or 25 feet below grade. Well construction details are included on the boring logs in Appendix C.

2.7 Monitoring Well Development and Sampling

During well construction, after placing the filter pack and before installing the bentonite pellets and cement seal, a surge block was used to stabilize the filter pack in Monitoring Wells MW-1 through MW-4.

On March 14, 1996, the wells were developed and sampled. The wells were developed by removing at least 10 casing volumes and until groundwater was relatively free of sediment, by using a submersible pump. During purging of the wells and before sample collection, pH, specific conductivity, and temperature were monitored. The samples were packed in an iced cooler and transported to a state-certified laboratory following chain of custody procedures. The results of groundwater analysis are presented in Table 1 and shown on Figure 4. Field procedures for groundwater monitoring, well development, and sampling are

presented in Appendix D. The well development and groundwater sampling data are presented in Appendix E.

2.8 Monitoring Well Surveying and Groundwater Level Monitoring

Monitoring Wells MW-1 through MW-4 were surveyed to the top of the well casing by a licensed land surveyor, PLS Surveys, Alameda, California. The wells were surveyed to a marked point on top of each well casing in reference to an established benchmark with an elevation of 28.784 feet above mean sea level (or City of Oakland datum elevation of 31.784 feet). The well elevation survey map is presented in Appendix F.

On March 14, 1996, the depth to groundwater in Wells MW-1 through MW-4 was measured from the top of the casing to the nearest 0.01 foot using an electronic water level indicator. The survey data and relative groundwater elevation measurements are presented in Table 2. The graphical interpretation of the groundwater gradient beneath the former Mobil Oil site is shown on Figure 2.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

Soils encountered in Soil Borings MW-2 and MW-3 generally consisted of silty and gravelly sands interbedded with sandy silts and silty clays from grade to the total depth of the borings. Sandy silts and silty sands were encountered in Boring MW-1 and clays and clayey and silty sands in Boring MW-4 from grade to the total depth of the borings.

Saturated soil conditions were first encountered at approximately 6.5 feet below grade in MW-1 and MW-2 and at a depth of 15.5 feet in MW-3 and MW-4 during drilling. The depth to groundwater measured in the monitoring wells during sampling ranged from approximately 4.5 to 9.5 feet.

The groundwater elevations in the wells, measured on March 14, 1996, were used to prepare the groundwater potentiometric surface map shown on Figure 3. The groundwater gradients as interpreted from these measurements is 0.23 foot per foot in a general southwesterly direction across the site.

4.0 ANALYTICAL METHODS

Sequoia Analytical, a state-certified laboratory, analyzed the soil and groundwater samples using standard test methods of the U.S. Environmental Protection Agency (EPA) and the California Department of Health Services. The samples were analyzed for the following:

- TPH-G using Environmental Protection Agency (EPA) Methods 5030/8015 (modified)
- Benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020

- TPH-D using EPA Methods 5030/8015 (modified)
- Total lead using EPA Method 7420

Additionally, soil and groundwater samples collected near the former waste oil tank location were analyzed for TOG using EPA Method 55420 DF.

The results of laboratory analysis are shown on Figure 4. The field procedures for chain of custody documentation, the laboratory reports, and chain of custody records are presented in Appendix F.

5.0 SUMMARY OF RESULTS AND CONCLUSIONS

The following are the results and conclusions of the additional tank closure activities and preliminary site investigation:

- Analysis of soil samples collected from the sidewalls of the former gasoline tank cavity detected up to 9.5 mg/kg TPH-G and 44 mg/kg TPH-D in Sample TS-3. Benzene was detected only in TS-3 at 0.11 mg/kg. Petroleum hydrocarbons were also detected in bottom Soil Samples TPSW-1 and TPSE-1 at concentrations of up to 640 mg/kg TPH-G and 160 mg/kg TPH-D. Benzene was not detected above the reported detection limit.
- TPH-G and benzene were not detected above the reported detection limits in Soil Samples S-WON and S-WOS, which were collected from beneath the former waste oil tank location. TPH-D and TOG were detected at concentrations of up to 2.9 mg/kg and 10 mg/kg.
- Petroleum hydrocarbons were not detected above the reported detection limits in the grab Water Samples TW-1 and WW-1, collected from the former gasoline and waste oil tank cavities. TPH-D was detected in TW-1 at 700 micrograms per liter (ug/l).
- Analysis of soil samples collected from the former product lines and dispenser islands detected up to 240 mg/kg TPH-G, 37 mg/kg TPH-D, and 0.30 mg/kg benzene.
- Saturated soil conditions first encountered during drilling ranged from approximately 6.5 to 15.5 feet below grade, with the depth to stabilized groundwater measured in the monitoring wells at approximately 4.5 to 9.5 feet.
- Petroleum hydrocarbons were not detected above the reported detection limits in soil samples collected in the unsaturated zone in MW-1, MW-2, and MW-3. TPH-G and benzene were detected at 280 mg/kg and 1.2 mg/kg in the soil sample collected from MW-4 at a depth of 5.5 feet.

- Soil samples collected from the capillary fringe in MW-2 at 10.5 feet below grade had TPH-G and benzene concentrations of up to 220 mg/kg and 1.2 mg/kg. Petroleum hydrocarbons were not detected above the reported detection limit in the soil samples from MW-1.

- Groundwater elevation data measured on March 14, 1996 indicate a gradient of approximately 0.23 foot per foot in a general southwesterly direction across the site.

- Free product or sheen was not observed in any of the monitoring wells.

- Analysis of the groundwater samples detected up to 12000 ug/l TPH-G, 3500 ug/l TPH-D, and 2000 benzene in MW-4.

- TOG was not detected above the reported detection limit in the groundwater sample collected from MW-3, near the former waste oil tank location.

Based on the above results, the following are the conclusions of this investigation:

- Removal of the underground storage tanks and product lines and over-excavation of the impacted soils appear to have effectively removed any remaining source of petroleum hydrocarbons to the subsurface. Residual absorbed-phase petroleum hydrocarbons in the unsaturated zone appear to be limited in extent.

- Petroleum hydrocarbons detected in soil samples collected at the capillary fringe are indicative of dissolved-phase hydrocarbon impact in the groundwater.

- The lateral extent of dissolved-phase petroleum hydrocarbons in the groundwater appears to be limited in the vicinity of the former tanks and product line locations. The highest concentrations of dissolved-phase petroleum hydrocarbons were detected in Monitoring Well MW-4, which is to the northwest of the former dispenser island. This area was over-excavated to remove any apparent residual absorbed-phase petroleum hydrocarbons from the soils.

- Additional subsurface soil and groundwater investigation does not appear warranted at this time.

6.0 RECOMMENDATIONS

Based on the results and findings of this investigation, Alisto recommends a groundwater monitoring program to be performed on a quarterly basis to monitor for the chemicals of concern and indicator parameters, including but not limited to: pH, dissolved oxygen, microbial enumeration, ferric/ferrous iron, nitrate, sulfate, nitrogen, and phosphorus. The results of monitoring will be continually evaluated to assess the occurrence and effectiveness of intrinsic biodegradation.

Based on the findings of the Lawrence Livermore National Laboratory report, "Recommendations to Improve the Cleanup Process for California's Leaking Underground Fuel Tanks", 1995, and the letter from the State Water Resources Control Board dated December 1995, intrinsic bioattenuation in conjunction with groundwater monitoring appears to be the appropriate option to address the nature and extent of hydrocarbons at this site.

The groundwater monitoring and sampling program will be used to evaluate the stability of site conditions and effectiveness of natural bioattenuation. It will also require ongoing assessment and management of remaining risks posed by residual hydrocarbons in the soil and groundwater for long-term protection of human health and the environment.

REFERENCES

ACHCSA, 1994. Letter - Underground Storage Tanks Removal at the Former Cars Rent A Car, 6301 San Pablo Avenue, Oakland, California. November 21.

Alisto Engineering Group, 1995. Work Plan for Additional Tank Closure Activities and Preliminary Site Investigation. October.

TABLE 1 - SUMMARY OF RESULTS OF SOIL SAMPLING
FORMER MOBIL OIL STATION 99-105
6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-309

BORING ID	SAMPLE DEPTH (Feet)	DATE OF SAMPLING	TPH-G (mg/kg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TOG (mg/kg)	LEAD (mg/kg)	LAB
Tank Excavation Samples											
S-1	11	08/05/94	6.5	---	0.180	0.082	0.370	1.2	---	---	---
S-2	11	08/05/94	3.2	---	0.11	ND<0.050	0.16	0.21	---	---	---
S-3	11	08/05/94	540	---	ND<1.5	4.1	24	72	---	---	---
S-4	11	08/05/94	73	---	ND<0.067	0.21	1.5	6.8	---	---	---
S-5	11	08/05/94	0.84	---	ND<0.050	ND<0.050	ND<0.050	0.031	---	---	---
S-6	11	08/05/94	40	---	ND<0.014	0.059	0.25	0.6	---	---	---
TS-1	4	01/04/96	3.8	21	ND<0.005	0.0085	ND<0.005	ND<0.005	---	ND<2.5	SEQ
TS-2	4	01/04/96	ND<1.0	20	ND<0.005	ND<0.005	ND<0.005	0.0053	---	ND<2.5	SEQ
TS-3	4	01/04/96	9.5	44	0.11	0.28	0.019	0.021	---	160	SEQ
TS-4	5	01/04/96	1.7	1.8	ND<0.005	0.014	0.0081	0.0086	---	ND<2.5	SEQ
TS-5	5	01/04/96	ND<1.0	2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	---	ND<2.5	SEQ
TS-6	4	01/04/96	ND<1.0	2.0	ND<0.005	0.0095	ND<0.005	0.015	---	86	SEQ
TPSW-1	---	02/14/96	640	160	ND<0.0050	0.32	6.5	36	---	5.3	SEQ
TPSE-1	---	02/14/96	93	160	ND<0.0050	ND<0.0050	0.43	2.7	---	5.8	SEQ
Tank Excavation Samples, Waste Oil											
WO-1	6	08/05/94	21	1.2	ND<0.015	0.11	0.34	1.5	94	4.3	---
S-WON	3	01/04/96	ND<1.0	2.9	ND<0.005	ND<0.005	ND<0.005	ND<0.005	8.5	30	SEQ
S-WOS	3	01/04/96	ND<1.0	1.6	ND<0.005	ND<0.005	ND<0.005	0.0095	10	28	SEQ

TABLE 1 - SUMMARY OF RESULTS OF SOIL SAMPLING
FORMER MOBIL OIL STATION 99-105
6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-309

BORING ID	SAMPLE DEPTH (Feet)	DATE OF SAMPLING	TPH-G (mg/kg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TOG (mg/kg)	LEAD (mg/kg)	LAB
Stockpile Samples, Waste Oil Tank											
WO-(1-2)	---	01/04/96	ND<1.0	38	ND<0.005	ND<0.005	ND<0.005	ND<0.005	240	30	SEQ
Product Line Samples											
PL1-1	3	02/14/96	ND<1.0	14	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	11	SEQ
PL1-2	2.5	02/14/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	5.0	SEQ
PL1-3	2.5	02/15/96	240	37	0.24	0.59	1.1	1.3	---	6.5	SEQ
PL1-5	2	02/15/96	63	4.9	0.30	0.42	0.31	0.41	---	8.2	SEQ
PL4-1	3	02/14/96	1.4	7.7	0.056	0.078	0.0073	0.042	---	9.9	SEQ
PL4-2	2.5	02/15/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	5.5	SEQ
PL4-3	5	02/15/96	4.3	3.0	0.0086	0.0075	0.040	0.058	---	6.3	SEQ
PL4-4	5	02/15/96	ND<1.0	3.2	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	4.6	SEQ
Stockpile Samples, Product Lines											
SPPL4-(1-4)	---	03/01/96	9.0	11	0.013	0.030	0.13	0.054	---	ND<2.5	SEQ
Groundwater Monitoring Well Samples											
MW-1	5-5.5	03/01/96	ND<1.0	3.4	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	ND<2.5	SEQ
MW-1	10-10.5	03/01/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	ND<2.5	SEQ
MW-1	15-15.5	03/01/96	ND<1.0	4.2	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	ND<2.5	SEQ
MW-2	5-5.5	03/01/96	ND<1.0	2.4	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	---	ND<2.5	SEQ
MW-2	10-10.5	03/01/96	220	57	1.2	1.4	2.7	14	---	ND<2.5	SEQ
MW-2	15-15.5	03/01/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	0.0063	0.035	---	ND<2.5	SEQ

TABLE 1 - SUMMARY OF RESULTS OF SOIL SAMPLING
FORMER MOBIL OIL STATION 99-105
6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-309

BORING ID	SAMPLE DEPTH (Feet)	DATE OF SAMPLING	TPH-G (mg/kg)	TPH-D (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	TOG (mg/kg)	LEAD (mg/kg)	LAB
MW-3	5.5-6	03/01/96	ND<1.0	1.1	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	9.0	ND<2.5	SEQ
MW-3	10.5-11	03/01/96	53	72	0.32	0.43	0.65	0.93	290	ND<2.5	SEQ
MW-3	15.5-16	03/01/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	10	ND<2.5	SEQ
MW-4	5.5-6	03/01/96	280	34	1.2	1.0	4.1	19	---	ND<2.5	SEQ
MW-4	10.5-11	03/01/96	5.8	7.7	0.11	ND<0.0050	0.11	0.093	---	ND<2.5	SEQ
MW-4	15.5-16	03/01/96	5.6	2.1	0.076	0.023	0.083	0.070	---	ND<2.5	SEQ

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOG	Total oil and grease
mg/kg	Milligrams per kilogram
ND	Not detected above reported detection limit
---	Not analyzed/available
SEQ	Sequoia Analytical

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TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
FORMER MOBIL OIL STATION 99-105
6301 SAN PABLO AVENUE, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-309

WATER ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	TOG (ug/l)	LEAD	LAB
TW-1	01/04/96	---	6.0	---	ND<50	700	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ
WW-1	01/04/96	---	3.0	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	SEQ
MW-1	03/14/96	32.79	4.50	28.29	610	450	0.75	0.54	1.5	59	---	ND<0.010	SEQ
MW-2	03/14/96	32.80	4.51	28.29	560	250	2.0	0.96	4.3	11	---	ND<0.010	SEQ
MW-3	03/14/96	32.80	9.55	23.25	4200	1200	220	30	140	520	ND<1.0	ND<0.010	SEQ
QC-1 (c)	03/14/96	---	---	---	4100	---	200	27	120	480	---	---	SEQ
MW-4	03/14/96	31.50	4.92	26.58	12000	3500	2200	140	880	2000	---	ND<0.010	SEQ
QC-2 (d)	03/14/96	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	---	SEQ

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
TOG	Total oil and grease
ug/l	Micrograms per liter
---	Not measured/analyzed/applicable
ND	Not detected above reported detection limit
SEQ	Sequoia Analytical

NOTES:

(a) Top of casing elevations surveyed in reference to Benchmark: cut square at the midpoint of the return, NE corner of San Pablo Avenue and 61st Street. Elevation = 31.784, City of Oakland Datum or 28.784 mean sea level).

(b) Groundwater elevations in feet above mean sea level.

(c) Blind duplicate.

(d) Travel blank.

F:\0\10-309309-1WS.WQ2

SOURCE:
USGS MAP, OAKLAND WEST QUADRANGLE,
7.5 MINUTE SERIES. 1959.
PHOTOREVISED 1980.

N

0 1000' 2000'

FIGURE 1

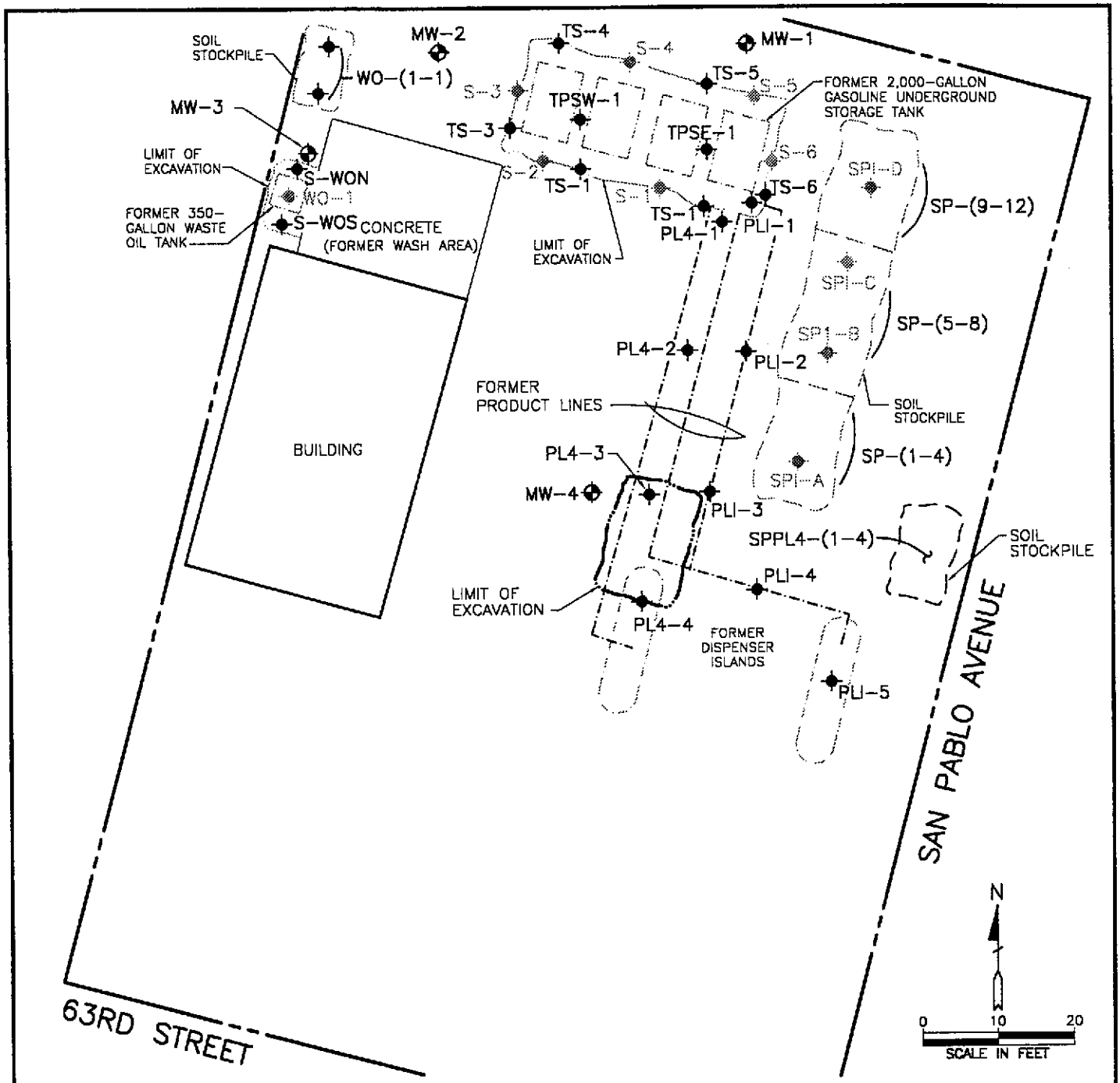
SITE VICINITY MAP

MOBIL OIL CORPORATION
FORMER MOBIL STATION NO. 99–105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10–309

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10309B--.DWG 8-22-95 MAP 1=1



LEGEND

- GROUNDWATER MONITORING WELL
- SOIL SAMPLE COLLECTED BY ALISTO ENGINEERING GROUP
- SOIL SAMPLE COLLECTED BY TANK PROTECT ENGINEERING

FIGURE 2

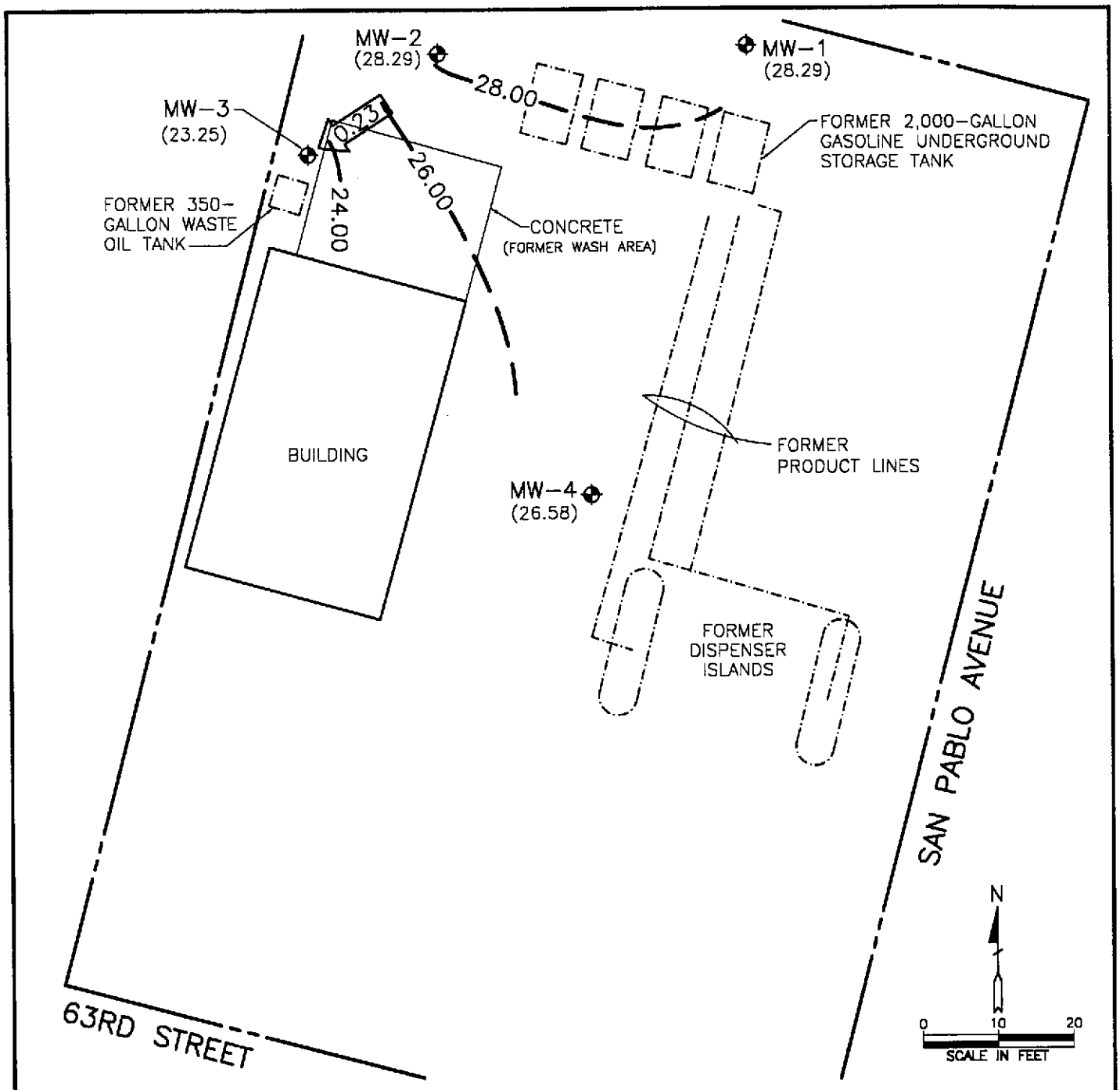
SITE PLAN

MOBIL OIL CORPORATION
FORMER MOBIL STATION NO. 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-309

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10309CA-DWG 4-12-98 HKW 1-20



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- (23.25) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 24.00 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL-2.00 FEET)
- 0.23 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP

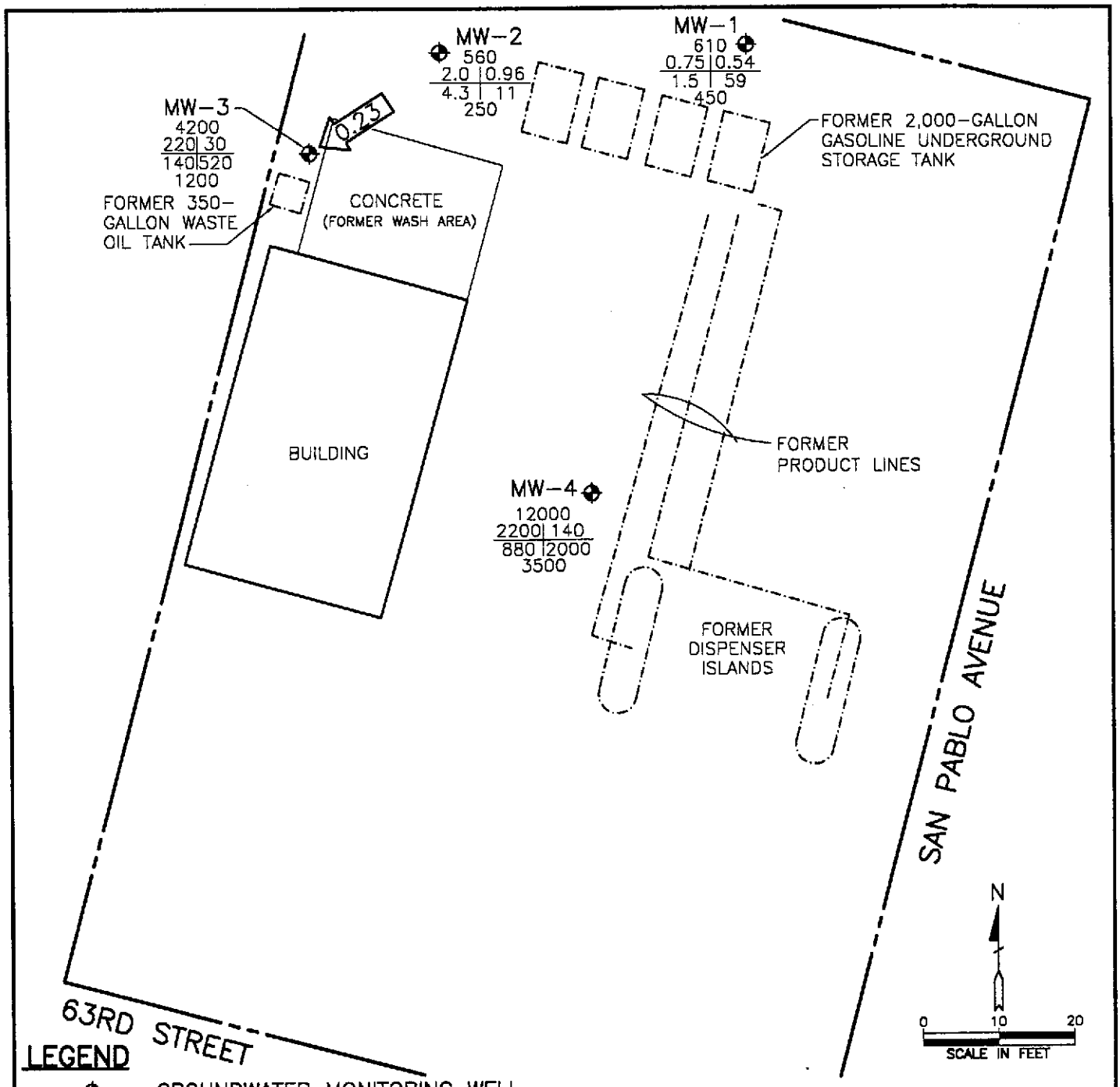
MARCH 14, 1996

MOBIL OIL CORPORATION
FORMER MOBIL STATION NO. 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-309

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10309D-0.DWG 4-12-96 RKW 1=20



LEGEND

◆	GROUNDWATER MONITORING WELL
TPH-G / B | T / E | X / TPH-D	CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER
TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ND	NOT DETECTED ABOVE REPORTED DETECTION LIMIT
⟵ 0.23	CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 4

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

MARCH 14, 1996

MOBIL OIL CORPORATION
FORMER MOBIL STATION NO. 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-309

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10309E-1.DWG 11-12-96 MW 1=20

APPENDIX A

NON-HAZARDOUS WASTE MANIFESTS AND PERMITS

21470

TF NUMBER: MC - 001

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

NAME: Mobil Oil Corporation Attn Earth

ADDRESS: 3225 Gallow Rd. IWM

CITY,STATE,ZIP: Fairfax, VA 22037 PHONE #: (703) 846-3400

DESCRIPTION OF WATER: MONITORING WELL PURGE, DECON WATER

I CERTIFY THAT THIS MATERIAL IS A LIQUID, EXEMPT FROM RCRA PER 40 CFR 261.4(b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW. HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS

X Christine Lobb of Mobil Oil on behalf of Atlantic Richfield Company
GENERATOR/AUTHORIZED AGENT

X Christine Lobb 4/10/96
SIGNATURE & DATE

SITE INFORMATION

Responsible Party	IWM Job #	Address	Gals
MOBIL	60050-B00	6301 San Pablo Avenue, Oakland, CA	

TOTAL GALLONS: 5000

TRANSPORTER INFORMATION

NAME: IWM, Inc. Subhauler for IWM: MP Environmental Service

ADDRESS: 950 Ames Avenue

CITY,STATE,ZIP: Milpitas, CA 95035 PHONE #: (408) 942-8955

TRUCK ID #: 504 X Ray Burton 5-13-96
(Typed or printed full name & signature) (Date)
RAY BURTON

RECEIVING FACILITY

NAME: McKittrick Waste Treatment Site

ADDRESS: 56533 Highway 58W

CITY,STATE,ZIP: McKittrick, CA 93251 PHONE #: 805-762-7366

APPROVAL #: 296-160-BS X R Wilkerson R Wilkerson 2/12/96
(Typed or printed full name & signature) (Date)

MWTS PH - 7.0 TDS: 22.38

296-160 PS 21474

TF NUMBER: MO-062

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

NAME: Mobil Oil Corporation Attn: Earth

ADDRESS: 3225 Gallows Rd. IW 210

CITY.STATE.ZIP: Fairfax VA 22037 PHONE #: (703) 846-3000

DESCRIPTION OF WATER: MONITORING WELL PURGE DECON WATER

I CERTIFY THAT THIS MATERIAL IS A LIQUID, EXEMPT FROM RCRA PER 40 CFR 261.4(B)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

X Christine Lewis [illegible] X [illegible]

GENERATOR/AUTHORIZED AGENT SIGNATURE & DATE

Allstate [illegible] Group Catherine Fouth, Mobil Oil Corp.

SITE INFORMATION

Responsible Party	IWM Job #	Address	Gals
MOBIL	60080-B00	6301 San Pablo Avenue, Oakland, CA	

TOTAL GALLONS: 5000

TRANSPORTER INFORMATION

NAME: IWM, Inc. Subhauler for IWM: STURGEON & SONS

ADDRESS: 950 Ames Avenue

CITY.STATE.ZIP: Milpitas, CA 95035 PHONE #: (408) 942-8955

TRUCK ID #: 234 X Alan C[illegible] [signature] 2-13-96

(Typed or printed full name & signature) (Date)

RECEIVING FACILITY

NAME: McKittrick Waste Treatment Site

ADDRESS: 56533 Highway 58W

CITY.STATE.ZIP: McKittrick, CA 93251 PHONE #: 805-762-7366

APPROVAL #: 296-160-PS X R. Wilkerson R Wilkerson 2-13-96 ~~9/8/93~~

(Typed or printed full name & signature) (Date)

MWTS PH-7.0 TONS: 20.77

296 160 PS

TF NUMBER: MO - 003 21454

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

NAME: Mobil Oil Corporation Attn: Faith

ADDRESS: 3225 Gallows Rd. [illegible]

CITY.STATE.ZIP: Fairfax, VA 22037 PHONE #: (703) 846 3000

DESCRIPTION OF WATER: MONITORING WELL PURGE DECON WATER

I CERTIFY THAT THIS MATERIAL IS A LIQUID, EXEMPT FROM RCRA PER 40 CFR 261 4(B)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS

X CHRISTINE LAND of ALISTO ENGINEERING GROUP
GENERATOR/AUTHORIZED AGENT

X [illegible signature]
SIGNATURE & DATE — CHERINE FOUTCH, MOBIL OIL C.

SITE INFORMATION

Responsible Party	IWM Job #	Address	Gals
MOBIL	60090-B60	6301 San Pablo Avenue, Oakland, CA	

TOTAL GALLONS: ~~[illegible]~~ 3570

TRANSPORTER INFORMATION

NAME: IWM, Inc. Subhauler for IWM: STURGEON & Son

ADDRESS: 950 Ames Avenue

CITY.STATE.ZIP: Milpitas, CA 95035 PHONE #: (408) 942-8955

TRUCK ID #: 224 X [illegible signature] 2-13-96
(Typed or printed full name & signature) (Date)

RECEIVING FACILITY

NAME: McKittrick Waste Treatment Site

ADDRESS: 56533 Highway 58W

CITY.STATE.ZIP: McKittrick, CA 93251 PHONE #: 805-762-7366

APPROVAL #: 296-160-PS X [illegible signature] 2/13/96
(Typed or printed full name & signature) (Date)

[illegible] 14 TONS 16.56

TF NUMBER: MO-004

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

NAME: Mobil Oil Corporation Attn: Earth

ADDRESS: 3225 Gallow Rd. IW210

CITY.STATE.ZIP: Fairfax, VA 22037 PHONE #: (703) 846-3000

DESCRIPTION OF WATER: MONITORING WELL PURGE / DECON WATER

I CERTIFY THAT THIS MATERIAL IS A LIQUID, EXEMPT FROM RCRA PER 40 CFR 261.4(B)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW. HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

X CHRISTINE LADD '07 X Christine Ladd on behalf of
GENERATOR/AUTHORIZED AGENT SIGNATURE & DATE
AGUSTO ENGINEERING GROUP CHERINE FOLOTH, MOBIL OIL CORP.

SITE INFORMATION

Responsible Party	IWM Job #	Address	Gals
MOBIL	60080-B&C	6301 So. Pablo Avenue, Oakland, CA	

TOTAL GALLONS: 2600

TRANSPORTER INFORMATION

NAME: IWM, Inc. Subhauler for IWM:

ADDRESS: 950 Ames Avenue

CITY.STATE.ZIP: Milpitas, CA 95035 PHONE #: (408) 942-8955

TRUCK ID #: 102 X Barry Adgar 1-13-96
(Typed or printed full name & signature) (Date)

RECEIVING FACILITY

NAME: McKittrick Waste Treatment Site

ADDRESS: 56533 Highway 58W

CITY.STATE.ZIP: McKittrick, CA 93251 PHONE #: 805-762-7366

APPROVAL #: 296-160-BS X R. Richardson R. Richardson 01/16/96
(Typed or printed full name & signature) (Date)

APR 10 '96 TUE 14:10 Ramcon FAX NO. 9163724209 P. 02

862001

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6. 967622

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL000056347
Manifest Document No. 94953
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ECRU - Mobile 2063 Main Street
Oakly, Ca. 94561

A. State Manifest Document Number 95894953

B. State Generator's ID

4. Generator's Phone (510) 295-1650

5. Transporter 1 Company Name
Erickson Inc
6. US EPA ID Number
CAD009466392

C. State Transporter's ID N/A
D. Transporter's Phone 510/235-1393

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801
10. US EPA ID Number
CAD009466392

G. State Facility's ID CAD009466392
H. Facility's Phone (510)235-1398

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank PIPING	001	TP	002000	P	State 513 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Qty 400' Empty Storage Tank PIPING # 1 1988
~~( ) Tank(s) have been inerted with~~
~~lbs. Dry Ice Per 1000 Gallon Capacity by~~ N/A

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name Ken Simkus & Phone 510-295-1650

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Bret Ramsey (As Agent Ramcon)
Signature: Bret Ramsey (As Agent Ramcon)
Month Day Year: 02 14 96

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Rick Adler
Signature: R K Adler
Month Day Year: 02 14 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: DAVID SATO
Signature: DAVE SATO
Month Day Year: 02 14 96

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR / TRANSPORTER / FACILITY

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE SS# 99-105 FOR OFFICE USE

LOCATION OF PROJECT 6301 San Pablo Ave, Oakland, Ct. 94608

PERMIT NUMBER 96105
LOCATION NUMBER

CLIENT
Name Mobil Oil Corporation
Address 2063 Main St. Suite 501
City Oakley, Ct Zip 94561

APPLICANT
Name ALISTO ENGINEERING GROUP 510 295-1650 Fax 510 295-1823
Address 1575 Treat Blvd. Suite 201
City Walnut Creek, CA Zip 94598

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection		General	
Water Supply		Contamination	
Monitoring	X	Well Destruction	

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other Investigation
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. C57-710678

WELL PROJECTS

Drill Hole Diameter	10	in.	Maximum Depth	20	ft.
Casing Diameter	4	in.	Number	4	
Surface Seal Depth	7	ft.			

GEOTECHNICAL PROJECTS

Number of Borings			Maximum Depth		ft.
Hole Diameter		in.			

ESTIMATED STARTING DATE 2/29/96
ESTIMATED COMPLETION DATE 2/23/96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Christine Todd Date 2/7/96

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 20 Feb 96
Wyman Hong

91992

APPENDIX B

FIELD PROCEDURES FOR DRILLING, SAMPLING, AND GROUNDWATER MONITORING WELL INSTALLATION

FIELD PROCEDURES
FOR
DRILLING, SAMPLING, AND
GROUNDWATER MONITORING WELL INSTALLATION

Drilling Procedures

The soil borings were drilled using 10-inch-diameter, continuous-flight, hollow-stem augers. To avoid cross-contamination, drilling equipment in contact with potentially contaminated material was decontaminated by steam cleaning before and after each use. Decontamination fluids were placed into DOT approved drums for disposal.

Soil Sampling Procedures

During drilling, samples were collected beginning at 5 feet below grade and terminating at the total depth of each boring. Soil sampling was performed using a 18-inch-long, split-barrel core sampler. Before and after each use, the sampler was washed using a phosphate-free detergent followed by tap water and deionized water rinses.

After retrieval from the augers, the sampler was split and a soil sample was collected in a stainless steel sample tube for possible chemical analysis. Each sample was field screened using a photo-ionization detector to assist in selecting the samples for laboratory analysis. The sample was retained within the stainless steel tube, and both ends were immediately covered with Teflon sheeting and polyurethane caps. The caps were sealed with tape and labeled with the following information: Alisto's project number, boring number, sample depth interval, sampler's initials, and date of collection. The soil sample was immediately placed in a waterproof plastic bag and stored in a cooler containing blue or dry ice. Possession of the soil samples was documented from the field to the state-certified analytical laboratory by using a chain of custody form.

Soil samples and drill cuttings, when appropriate, were described by Alisto's personnel using the Unified Soils Classification System, and field estimates of soil type, color, moisture, density, and consistency were noted on the boring logs. The logs were reviewed by a civil engineer registered in the state of California.

Groundwater Monitoring Well Installation

Construction of the groundwater monitoring wells was based on the stratigraphy in the soil borings. The well construction materials were introduced into the boring through the hollow-stem augers to centralize the well casing and minimize the possibility of native material entering the annular space of the well.

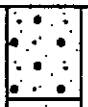
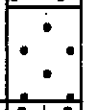
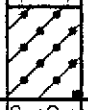
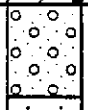
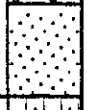
The 4-inch-diameter, Schedule 40 PVC well casing consisted of 0.010-inch slotted casing from the bottom of the boring to a depth interval above the highest anticipated water level, and solid casing was installed from the top of the slotted casing to approximately 1 foot above grade. The casings, fittings, screens, and other well construction components were steam cleaned before installation.

The annular space surrounding the screened portion was backfilled with No. 2/12 Lonestar sand (filter pack) to approximately 1 foot above the top of the screened section. An approximately 1-foot-thick interval of bentonite pellets was added to the annulus above the filter pack and hydrated with approximately 5 gallons of deionized water to minimize intrusion of well seal into the filter pack. The remaining annulus was sealed with a neat cement grout to the surface. A traffic-rated utility box was installed around the top of the well casing and set in concrete. An expanding, watertight well cap and lock were installed on top of the casing to secure the well from surface fluid and tampering.

APPENDIX C

BORING LOGS AND WELL CONSTRUCTION DETAILS

GEOLOGIC LEGEND

COARSE-GRAINED SOILS	GRAVELS more than 1/2 of coarse fraction > No. 4 Sieve	LITTLE OR NO FINES		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures
		APPRECIABLE NO FINES		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS more than 1/2 of coarse fraction < No. 4 Sieve	LITTLE OR NO FINES		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sands, little or no fines
		APPRECIABLE NO FINES		SM	Silty sands, sand-silt mixtures
				SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS	SILTS AND CLAYS Liquid limit < 50			ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts and organic silty clays of low plasticity
	SILTS AND CLAYS Liquid limit > 50			MH	Inorganic silts, micaceous or diatomoceous fine sandy or silty soils, elastic silts
				CH	Inorganic clays of high plasticity, fat clays
				OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS				Pt	Peat and other highly organic soils

SYMBOL LEGEND:

- Cement
- Sand
- Bentonite
- Driven Interval of Soil Sample
- Sample preserved for possible analysis
- No sample recovered
- Stabilized water level
- Groundwater level encountered during drilling

LEGEND TO BORING LOGS

MOBIL OIL CORPORATION
FORMER MOBIL STATION NO. 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-309

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

GEO-LEGDWG 1-31-88 RAW 1=1

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING MW-1

SEE SITE PLAN

ALISTO PROJECT NO: 10-309-01 DATE DRILLED: 03/01/96
CLIENT: Mobil Oil Corporation
LOCATION: 6301 San Pablo Avenue, Oakland, California
DRILLING METHOD: Hollow-Stem Auger (10")
DRILLING COMPANY: V & W Drilling CASING ELEVATION: 32.79 'MSL
LOGGED BY: C. Ladd APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						ML	2.5" asphalt
10,12,14			5				sandy SILT: light brown mottled Fe oxide stain, damp to moist, very stiff; fine-grained sand.
10,11,13			10				Same: reddish brown, damp to moist, very stiff; very fine-grained sand; some fill gravels (pea gravel).
						SM	
9,12,13			15				silty SAND: tan occasional black mottling, damp to moist, medium dense; fine-grained sand.
						ML	clayey SILT: reddish brown mottled tan, damp, very stiff; minor fines; occasional rootlets.
10,12,15			20				
							Stabilized water level measured on March 14, 1996.
			25				
			30				

WELL DIAGRAM: 4" Sch.40 PVC; Neat Cement; 4" 0.010" Slotted PVC Screen; Bentonite Seal; #12 Sand

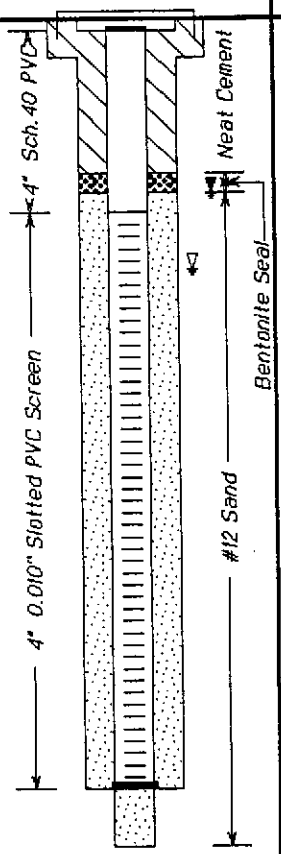
ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING MW-2

SEE SITE PLAN

ALISTO PROJECT NO: 10-309-01 DATE DRILLED: 03/01/98
CLIENT: Mobil Oil Corporation
LOCATION: 6301 San Pablo Avenue, Oakland, California
DRILLING METHOD: Hollow-Stem Auger (10")
DRILLING COMPANY: V & W Drilling CASING ELEVATION: 32.80 'MSL
LOGGED BY: C. Ladd APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAN	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						SM	2.5" asphalt
14,15,18			5				silty SAND: reddish brown mottled blue green, damp to moist, dense; fine- to medium-grained sand; occasional pea gravels.
5,7,10			10				sandy SILT: brownish tan, damp to moist, medium stiff; fine-grained sand; some Fe oxide stain.
17,35,35			15			SP	gravelly SAND: brown, moist, very dense; fine- to medium-grained sand; gravels to 3/4"-diameter.
11,17,22			20			CL	silty CLAY: reddish brown mottled tan, damp, hard; some rootlets and Fe oxide staining.
			25				Stabilized water level measured on March 14, 1998.
			30				



ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING MW-3

SEE SITE PLAN

ALISTO PROJECT NO: 10-309-01 DATE DRILLED: 03/01/96
CLIENT: Mobil Oil Corporation
LOCATION: 6301 San Pablo Avenue, Oakland, California
DRILLING METHOD: Hollow-Stem Auger (10")
DRILLING COMPANY: V & W Drilling CASING ELEVATION: 32.80 'MSL
LOGGED BY: C. Ladd APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAM	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
		4" Sch. 40 PVC; Neat Cement				SM	Native soil with some pea gravel
							silty SAND: dark brown, damp; some pea gravel. Observed from cuttings
27,50			5			CL	silty CLAY: tan, damp, hard; minor pea gravel and sand.
4,10,24		Bentonite Seal; #12 Sand; 4" 0.010" Slotted PVC Screen	10			SM	silty SAND: gray, damp to moist, dense; fine-grained sand; Fe oxide stain to approximately 5%; 3% gravels to 1/4"-diameter.
17,23,24			15			SP	gravelly SAND: reddish brown with Fe oxide stain, wet, dense; medium-grained sand; subrounded gravels to 1"-diameter.
						SM	sandy SILT: reddish brown, damp to moist, hard; fine-grained sand; Fe oxide stain.
13,21,45			20			SP	gravelly SAND: reddish brown, wet, very dense; medium-grained sand; subrounded gravels to 1"-diameter; Fe oxide stain.
							Stabilized water level measured on March 14, 1996.
			25				
			30				

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

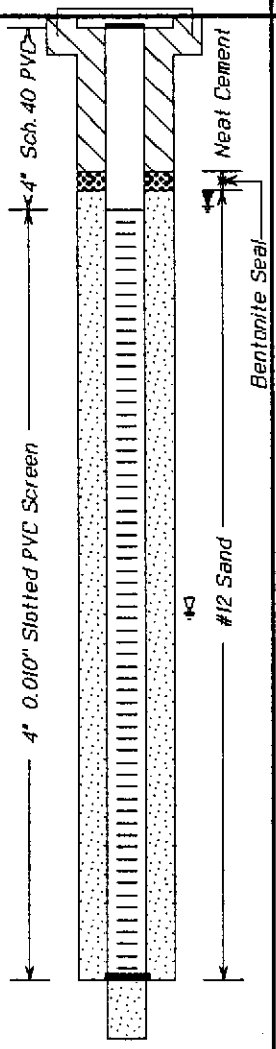
LOG OF BORING MW-4

SEE SITE PLAN

ALISTO PROJECT NO: 10-309-01 DATE DRILLED: 03/01/96
CLIENT: Mobil Oil Corporation
LOCATION: 6301 San Pablo Avenue, Oakland, California
DRILLING METHOD: Hollow-Stem Auger (10")
DRILLING COMPANY: V & W Drilling CASING ELEVATION: 31.50 'MSL
LOGGED BY: C. Ladd APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	DEPTH feet	SOIL CLASS	GEOLOGIC DESCRIPTION
			CL	2.5" asphalt
10,15,21		5		CLAY: gray, dry, hard.
			SC	
7,10,10		10		clayey SAND: gray mottled brown, damp, medium dense; fine- to medium-grained sand; some silt.
7,23,25		15		Same: wet to saturated lense at 15 feet.
			SM	silty SAND: reddish brown mottled with some clay, wet, dense; fine-grained sand.
5,7,13		20		Same: wet to saturated lense at 19.7 feet.
			ML	clayey SILT: reddish brown mottled tan, damp to moist, very stiff; some fines.
			SC	
7,12,25		25		clayey SAND: reddish brown mottled tan, moist, dense; fine-grained sand.
		30		Stablized water level measured on March 14, 1996.

WELL DIAGRAN



APPENDIX D

FIELD PROCEDURES FOR GROUNDWATER MONITORING WELL DEVELOPMENT AND SAMPLING

FIELD PROCEDURES
FOR
GROUNDWATER MONITORING WELL DEVELOPMENT AND SAMPLING

Groundwater Monitoring Well Development

The groundwater monitoring wells were developed to consolidate and stabilize the filter pack to optimize well production and reduce the turbidity of subsequent groundwater samples. Well development was accomplished by alternately using a surge block and pump to evacuate the water and sediment a minimum of 72 hours after installation of the cement seal. Development continued until the groundwater was relatively free of sediment and/or stabilization of pH, electrical conductivity, and temperature parameters was achieved. Well development fluids were placed into DOT-approved drums for disposal.

Groundwater Level Measurement

Before groundwater sampling, the groundwater level in each well was measured from the permanent survey reference point on top of the well casing. Groundwater in each well was monitored for free-floating product or sheen. The depth to groundwater was measured to an accuracy of 0.01 foot from the top of the PVC well casing using an electronic sounder.

Groundwater Monitoring Well Sampling

To ensure that the groundwater samples were representative of the aquifer, the wells were purged of 3 casing volumes and the above parameters stabilized before sample collection. Purging was accomplished using either a pump or a disposable bailer.

The groundwater samples were collected using a disposable bailer, and transferred into laboratory-supplied containers. The sampling technician wore nitrile gloves during purging and well sampling. The samples were labeled with well number, site identification, date and time of collection, and sampler's initials, and transported in an iced cooler to a state-certified laboratory following preservation and chain of custody protocol.

APPENDIX E

WELL DEVELOPMENT AND WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING
GROUP
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

Groundwater Sampling
Well Development

Date: 3/14/96 Project No. 10-309-01-004
Day: Thur Station No.
Weather: Sunny Address 6301 San Pablo Ave, Oakland
SAMPLER:

Well ID	SAMPLE#	WATER	DEPTH	Well ID	SAMPLE #	WATER	DEPTH	Well ID	SAMPLE	WATER DEPTH
mw-4	—	4.92	1046							
mw-1	—	4.50	1058							
mw-2	—	4.51	1054							
mw-3	—	9.55	1100							

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	Turb D.O.
mw-4	4.92	4"	OK	Ø	Ø	100	1128	71.0	7.85	0.72	muddy
						120	1135	70.7	7.70	0.69	↓
						140	1144	69.8	7.65	0.69	light tan

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge= PurgeVol.
25.00 - 4.92 = 20.08 x .65 = 13.05 x 10 = 130.50

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Baller(s)___ OSys Port
Comments:

O EPA 601____
TPH-G/BTEX Hex
TPH Diesel none
TOG 5520 Tot lead
Time Sampled: 1310

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	Turb D.O.
mw-1	4.50	4"	OK	Ø	Ø	80	1209	65.4	8.48	0.24	muddy
						90	1211	64.3	8.30	0.23	clearing
						105	1215	64.0	8.21	0.23	very little fines

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge= PurgeVol.
20.07 - 4.50 = 15.57 x .65 = 10.12 x 10 = 101.20

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Baller(s)___ OSys Port
Comments:

O EPA 601____
TPH-G/BTEX Hex
TPH Diesel none
O TOG 5520 Tot lead
Time Sampled: 1325

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	Turb D.O.
mw-2	4.51	4"	OK	Ø	Ø	80	1230	64.1	7.99	0.35	muddy
						90	1234	63.5	7.86	0.33	clearing
						100	1239	63.1	7.74	0.32	medium fines

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge= PurgeVol.
19.60 - 4.51 = 15.09 x .65 = 9.81 x 10 = 98.10

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Baller(s)___ OSys Port
Comments:

O EPA 601____
TPH-G/BTEX Hex
TPH Diesel none
TOG 5520 Tot lead
Time Sampled: 1340

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp °F	pH	E.C.	Turb D.O.
mw-3	9.55	4"	OK	Ø	Ø	50	1252	66.1	7.71	0.76	clear
						60	1254	65.9	7.65	0.73	↓
						70	1256	65.7	7.51	0.73	↓

Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge= PurgeVol.
20.28' - 9.55 = 10.73 x .65 = 6.97 x 10 = 69.70

Purge Method: Surface Pump ODisp.Tube OWinch ODisp. Baller(s)___ OSys Port
Comments: QC-1 from this well; slight odor

EPA 601 Tot lead
TPH-G/BTEX Hex
TPH Diesel none
TOG 5520 Hex
Time Sampled: 1500

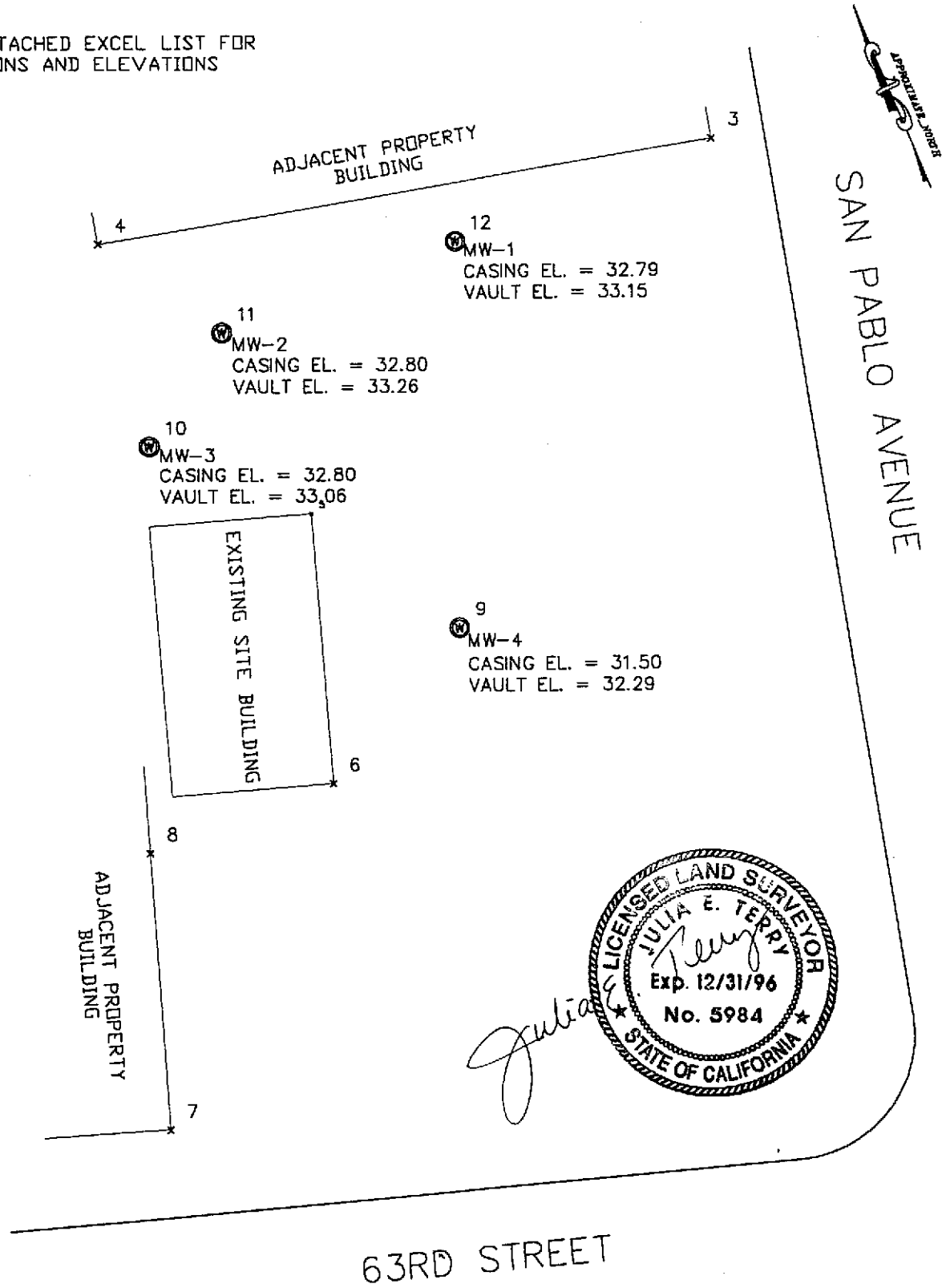
* Hydac ↓ 7pH ↓ conductivity reading are in uS/cm units

* DO column will be replaced by turbidity

APPENDIX F

WELL ELEVATION SURVEY MAP

NOTE:
SEE ATTACHED EXCEL LIST FOR
LOCATIONS AND ELEVATIONS



LICENSED LAND SURVEYOR
JULIA E. TERRY
Exp. 12/31/96
No. 5984
STATE OF CALIFORNIA

PLS SURVEYS, INC.
1202 LINCOLN AVENUE
ALAMEDA, CA 94501
(510) 522-1790
FAX(510) 522-6207

Monitoring Wells

6301 San Pablo Avenue
Oakland, CA

SCALE	NO SCALE
DATE	03-14-96
BY	JET
JOB NO.	96016

C:\SDSKPROJ\96016\96016 4-2-96 5:05:33 pm PST

ID	NORTHING	EASTING	ELEVATION AT MSL			
MW-1 CASING			32.79			
MW-1 VAULT	5066.53	4958.65	33.15			
MW-2 CASING			32.80			
MW-2 VAULT	5051.95	4920.71	33.26			
MW-3 CASING			32.80			
MW-3 VAULT	5033.74	4908.97	33.06			
MW-4 CASING			31.50			
MW-4 VAULT	5004.27	4958.87	32.29			
BLDG. COR #5	5022.70	4934.86				
BLDG. COR #6	4979.37	4938.08				
BLDG. COR #3	5082.73	5000.00				
BLDG. COR #4	5066.44	4901.19				
BLDG. COR #7	4923.82	4911.39				
BLDG. LINE #8	4968.36	4908.57				
BENCHMARK: CUT SQUARE AT THE MIDPOINT OF THE RETURN ,						
NE CORNER OF SAN PABLO AVENUE AND 61ST STREET.						
ELEVATION = 31.784, CITY OF OAKLAND DATUM OR 28.784 MSL (MEAN SEA LEVEL).						

Julia E. Terry

LICENSED LAND SURVEYOR
JULIA E. TERRY
Exp. 12/31/96
No. 5966
STATE OF CALIFORNIA

APPENDIX G

FIELD PROCEDURES FOR CHAIN OF CUSTODY DOCUMENTATION, LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS

FIELD PROCEDURES
FOR
CHAIN OF CUSTODY DOCUMENTATION

Samples were handled in accordance with the California Department of Health Services guidelines. Each sample was labeled in the field and immediately stored in a cooler and preserved with blue ice for transport to a state-certified laboratory for analysis.

The chain of custody record accompanied the samples, and included the site and sample identification, date and time of sample collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain of custody record.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jan 22, 1996
Attention: Ken Simas	First Sample #:	601-0269	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 601-0269 SP-(1-4)	Sample I.D. 601-0270 SP-(5-8)	Sample I.D. 601-0271 SP-(9-12)	Sample I.D. 601-0272 TS-1	Sample I.D. 601-0273 TS-2	Sample I.D. 601-0274 TS-3
QC Batch Number:		SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA
Purgeable Hydrocarbons	1.0	3.3	2.4	N.D.	3.8	N.D.	9.5
Benzene	0.0050	0.014	N.D.	N.D.	N.D.	N.D.	0.11
Toluene	0.0050	0.071	0.021	0.014	0.0085	N.D.	0.28
Ethyl Benzene	0.0050	N.D.	0.011	0.0069	N.D.	N.D.	0.019
Total Xylenes	0.0050	0.0065	0.075	0.031	N.D.	0.0053	0.021
Chromatogram Pattern:		Gasoline	Gasoline	--	Gasoline & Unidentified Hydrocarbons >C8	--	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	91	92	92	92	98

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jan 22, 1996
Attention: Ken Simas	First Sample #:	601-0275	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 601-0275 TS-4	Sample I.D. 601-0276 T-S5	Sample I.D. 601-0277 TS-6	Sample I.D. 601-0278 WO-(1-2)	Sample I.D. 601-0279 S-WON	Sample I.D. 601-0280 S-WOS
QC Batch Number:		SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA	SP011696 8020EXA
Purgeable Hydrocarbons	1.0	1.7	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	0.014	N.D.	0.0095	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	0.0081	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	0.0086	N.D.	0.015	N.D.	N.D.	0.0095
Chromatogram Pattern:		Gasoline	--	Gasoline	--	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96	1/16/96
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	92	92	88	88	93	96

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jan 22, 1996
Attention: Ken Simas	First Sample #:	601-0281	

QC Batch Number: GC011796 802002A / GC011796 802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 601-0281 TW-1	Sample I.D. 601-0282 WW-1
Purgeable Hydrocarbons	50	N.D.	N.D.
Benzene	0.50	N.D.	N.D.
Toluene	0.50	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.
Chromatogram Pattern:		--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0
Date Analyzed:	1/17/96	1/17/96
Instrument Identification:	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	102	101

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported: Jan 22, 1996
Attention: Ken Simas	First Sample #:	601-0269	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 601-0269 SP-(1-4)	Sample I.D. 601-0270 SP-(5-8)	Sample I.D. 601-0271 SP-(9-12)	Sample I.D. 601-0272 TS-1	Sample I.D. 601-0273 TS-2	Sample I.D. 601-0274 TS-3
QC Batch Number:		SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA
Extractable Hydrocarbons	1.0	11	7.5	5.5	21	20	44
Chromatogram Pattern:		Unidentified Hydrocarbons >C16	Diesel	Diesel	Diesel	Unidentified Hydrocarbons >C16	Diesel & Unidentified Hydrocarbons >C16

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	1/9/96	1/9/96	1/9/96	1/9/96	1/9/96	1/9/96
Date Analyzed:	1/10/96	1/10/96	1/10/96	1/10/96	1/10/96	1/10/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported: Jan 22, 1996
Attention: Ken Simas	First Sample #:	601-0275	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 601-0275 TS-4	Sample I.D. 601-0276 T-S5	Sample I.D. 601-0277 TS-6	Sample I.D. 601-0278 WO-(1-2)	Sample I.D. 601-0279 S-WON	Sample I.D. 601-0280 S-WOS
QC Batch Number:		SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA	SP010996 8015EXA
Extractable Hydrocarbons	1.0	1.8	2.0	2.0	38	2.9	1.6
Chromatogram Pattern:		Unidentiifed Hydrocarbons >C16	Unidentiifed Hydrocarbons >C16	Unidentiifed Hydrocarbons >C16	Unidentiifed Hydrocarbons >C16	Unidentiifed Hydrocarbons >C16	Unidentiifed Hydrocarbons >C16

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	1/9/96	1/9/96	1/9/96	1/9/96	1/9/96	1/9/96
Date Analyzed:	1/10/96	1/10/96	1/10/96	1/10/96	1/10/96	1/10/96
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3510/8015 Mod.	Reported: Jan 22, 1996
Attention: Ken Simas	First Sample #:	601-0281	

QC Batch Number: SP010896

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 601-0281 TW-1
Extractable Hydrocarbons	50	700

Chromatogram Pattern: Unidentified Hydrocarbons >C16

Quality Control Data

Report Limit Multiplication Factor:	5.0
Date Extracted:	1/8/96
Date Analyzed:	1/8/96
Instrument Identification:	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Sample Descript:	Soil	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis for:	Lead	Digested: Jan 12, 1996
Attention: Ken Simas	First Sample #:	601-0269	Analyzed: Jan 12, 1996
			Reported: Jan 22, 1996

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
601-0269	SP-(1-4)	2.5	12	ME0112966010MDA	MV-1
601-0270	SP-(5-8)	2.5	15	ME0112966010MDA	MV-1
601-0271	SP-(9-12)	2.5	5.2	ME0112966010MDA	MV-1
601-0272	TS-1	2.5	N.D.	ME0112966010MDA	MV-1
601-0273	TS-2	2.5	N.D.	ME0112966010MDA	MV-1
601-0274	TS-3	2.5	160	ME0112966010MDA	MV-1
601-0275	TS-4	2.5	N.D.	ME0112966010MDA	MV-1
601-0276	TS-5	2.5	N.D.	ME0112966010MDA	MV-1
601-0277	TS-6	2.5	86	ME0112966010MDA	MV-1
601-0278	WO-(1-2)	2.5	30	ME0112966010MDA	MV-1
601-0279	S-WON	2.5	30	ME0112966010MDA	MV-1
601-0280	S-WOS	2.5	28	ME0112966010MDA	MV-1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Matrix Descript:	Soil	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 413.2 (I.R.)	Extracted: Jan 10, 1996
Attention: Ken Simas	First Sample #:	601-0278	Analyzed: Jan 10, 1996
			Reported: Jan 22, 1996

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor	QC Batch Number
601-0278	WO- (1-2)	240	1.0	SP0110964132MDA
601-0279	S-WON	8.5	1.0	SP0110964132MDA
601-0280	S-WOS	10	1.0	SP0110964132MDA

Detection Limits:	**5.0**

. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Alisto Engineering Group	Client Project ID:	Mobil 99-105	Sampled: Jan 4, 1996
1575 Treat Blvd., Ste. 201	Matrix Descript:	Water	Received: Jan 5, 1996
Walnut Creek, CA 94598	Analysis Method:	SM 5520 B&F (Gravimetric)	Extracted: Jan 8, 1996
Attention: Ken Simas	First Sample #:	601-0282	Analyzed: Jan 8, 1996
			Reported: Jan 22, 1996

TOTAL RECOVERABLE PETROLEUM OIL

Sample Number	Sample Description	Oil & Grease mg/L (ppm)	Detection Limit Multiplication Factor	QC Batch Number
601-0282	WW-1	N.D.	1.0	SP0108965520MDA

Detection Limits:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil 99-105
Matrix: Solid
QC Sample Group: 6010269-282

Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Diesel
QC Batch#:	SP011696	SP011696	SP011696	SP011696	SP010996	SP010996
	8020EXA	8020EXA	8020EXA	8020EXA	8015EXA	8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 3550
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	J. Dinsay	J. Dinsay
MS/MSD #:	6010393	6010393	6010393	6010393	6010276	6010276
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	2.0 mg/kg	2.0 mg/kg
Prepared Date:	1/16/96	1/16/96	1/16/96	1/16/96	1/9/96	1/9/96
Analyzed Date:	1/16/96	1/16/96	1/16/96	1/16/96	1/10/96	1/10/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	HP-3B
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	10 mg/kg
Result:	0.41	0.43	0.44	1.3	8.3	8.0
MS % Recovery:	103	108	110	108	73	80
Dup. Result:	0.43	0.45	0.47	1.4	11	11
MSD % Recov.:	108	113	118	117	90	90
RPD:	4.8	4.5	6.6	7.4	21	12
RPD Limit:	0-50	0-50	0-50	0-50	0-50	0-50

LCS #:	2LCS011696	2LCS011696	2LCS011696	2LCS011696	LCS010996	LCS010996
Prepared Date:	1/16/96	1/16/96	1/16/96	1/16/96	1/9/96	1/9/96
Analyzed Date:	1/16/96	1/16/96	1/16/96	1/16/96	1/9/96	1/9/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	HP-3B
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	10 mg/kg	10 mg/kg
LCS Result:	19	20	21	62	10	10
LCS % Recov.:	95	100	105	103	100	100

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140	50-150	50-150

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil 99-105
Matrix: Solid
QC Sample Group: 6010269-282
Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Oil & Grease	Lead
QC Batch#:	SP011096	ME011296
	4132MDA	6010MDA
Analy. Method:	EPA 413.2	EPA 7420
Prep. Method:	EPA 3510	EPA 3050
Analyst:	I.Z.	T. Le
MS/MSD #:	6010279	6010269
Sample Conc.:	8.5 mg/kg	12 mg/kg
Prepared Date:	1/10/96	1/12/96
Analyzed Date:	1/10/96	1/12/96
Instrument I.D.#:	Miran 1A	MV-1
Conc. Spiked:	125 mg/kg	50 mg/kg
Result:	138	55
MS % Recovery:	104	86
Dup. Result:	140	54
MSD % Recov.:	105	84
RPD:	1.4	1.8
RPD Limit:	0-30	0-20

LCS #:	BLK011096	BLK011296
Prepared Date:	1/10/96	1/12/96
Analyzed Date:	1/10/96	1/12/96
Instrument I.D.#:	Miran 1A	MV-1
Conc. Spiked:	125 mg/kg	50 mg/kg
LCS Result:	138	43
LCS % Recov.:	110	86

MS/MSD LCS Control Limits	70-130	75-125

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil 99-105
Matrix: Liquid

QC Sample Group: 6010281-282

Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Oil & Grease	Diesel
QC Batch#:	GC011796	GC011796	GC011796	GC011796	SP010896	SP010896
	802002A	802002A	802002A	802002A	5520MDA	8015EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	SM 5520	EPA 8015
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	SM 5520	EPA 3510
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	D. Newcomb	J. Dinsay
MS/MSD #:	6010240	6010240	6010240	6010240	BLK010896	BLK010896
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/17/96	1/17/96	1/17/96	1/17/96	1/8/96	1/8/96
Analyzed Date:	1/17/96	1/17/96	1/17/96	1/17/96	1/8/96	1/8/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Manual	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	100 mg/L	300 µg/L
Result:	22	21	22	67	91	250
MS % Recovery:	110	105	110	112	91	83
Dup. Result:	22	22	23	68	92	290
MSD % Recov.:	110	110	115	113	92	97
RPD:	0.0	4.7	4.4	1.5	1.0	15
RPD Limit:	0-20	0-20	0-20	0-20	0-30	0-50

LCS #:	1LCS011796	1LCS011796	1LCS011796	1LCS011796	BLK010896	LCS010896
Prepared Date:	1/17/96	1/17/96	1/17/96	1/17/96	1/8/96	1/8/96
Analyzed Date:	1/17/96	1/17/96	1/17/96	1/17/96	1/8/96	1/8/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Manual	HP-3A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	100 mg/L	300 µg/L
LCS Result:	23	22	23	70	92	220
LCS % Recov.:	115	110	115	117	92	73

MS/MSD LCS Control Limits	71-133	75-128	72-130	71-120	60-140	50-150

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Alisto Engineering
Address: 1575 Treat Blvd
City: Walnut Creek State: CA Zip: 94598
Tel: (510) 295 1650 Fax: (510) 295 1823

Station No./Site Address: 99-105 / 6301 San Pablo Ave, Oakland
Project Contact: Kevin Simas (10-309-1-1)
Mobil Oil Engineer: Steve Pao
Sampler(s) (signature):

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX -TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☒	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	For Composite Analysis	Hold until 1/15
SP-1→SP-4	Soil	1/4/96	—	—	4	sleeves		X	X		6010269				AD	X					X	
SP-5→SP-8	Soil	1/4/96	—	—	4	sleeves		X	X		6010270					X					X	
SP-9→SP-12	Soil	1/4/96	—	—	4	sleeves		X	X		6010271					X					X	
TS-1	Soil	1/4/96	—	—	1	sleeve		X	X		6010272					X						
TS-2	↓	↓	—	—	↓	↓		↓	↓		6010273					↓						
TS-3			—	—							6010274											
TS-4			—	—							6010275											X
TS-5			—	—							6010276											X
TS-6	↓	↓	—	—	↓	↓		↓	↓		6010277					↓						

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☒ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by: Alisto Date/Time: 1/5/96 13:10
Relinquished by: ~~Relinquished by:~~ Received By: Date/Time: 1/5/96 13:10
Relinquished by: Date/Time:
Relinquished by: Date/Time:
Relinquished in Lab by: Date/Time:

Turnaround Time: (check one):
Normal ___ Same day ___
1 day ___ 2 day ___
5 day ___

Sample Integrity:
Intact ___ On Ice ___

Remarks: HOLD SAMPLES FOR POSSIBLE ADDITIONAL ANALYSIS
There is 2 samples labled TS-5 ; one is supposed to be TS-4
cannot decipher until I speak w/ CL.

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Alisto Engineering
Address: 1575 Treat Blvd
City: Walnut Creek State: CA Zip: 94598
Tel: (510) 295 1650 Fax.: (510) 295 1823

Station No./Site Address: 99-105 / 6301 Sanford Ave, Oakland
Project Contact: Ken Simas (10-305-1-1)
Mobil Oil Engineer: Steve Reo
Sampler(s) (signature): Ken Simas

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX -TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 STLC ☐ TTLC ☐	Lead Org./DHS ☐ Lead Total ☒	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	Lomasite	
WO-1 → WO-2	Soil	1/4/96	—	—	2	Sleeve		X	X	X			6010278			X AD					X	
SWON	Soil	1/4/96	—	—	1	Sleeve		X	X	X			6010279			X						
S-WOS	Soil	↓	—	—	1	Sleeve		↓	↓	↓			6010280			↓						
TW-1	H2O	1/4/96	—	HCl/Ice	4	VOA/L		X	X				6010281			AD						
WW-1	↓	↓	—	HCl/Ice	4	↓		↓		X			6010282			↓						

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☒ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by:	Date/Time:	Relinquished by:	Date/Time:
Ken Simas Alisto	1/5/96 1310	Received by: [signature]	1/5/96 1310
Relinquished by:	Date/Time:	Relinquished by:	Date/Time:
Relinquished by:	Date/Time:	Relinquished in Lab by:	Date/Time:

Turnaround Time: (check one)
Normal ____ Same day ____
1 day ____ 2 day ____
5 day ____

Sample Integrity:
Intact ____ On Ice ____

Remarks: Hold Samples for possible additional Analysis

Sequoia Analytical

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Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Feb 15, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Feb 16, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Feb 26, 1996
Attention: Ken Simas	First Sample #:	602-1183	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 602-1183 TPSW-1	Sample I.D. 602-1184 TPSE-1	Sample I.D. 602-1185 PL1-1@3.0'	Sample I.D. 602-1186 PL1-2@2.5'	Sample I.D. 602-1187 PL1-3@2.5'	Sample I.D. 602-1188 PL1-5@2'
QC Batch Number:		SP022196 8020EXA	SP022196 8020EXA	SP022596 8020EXA	SP022596 8020EXA	SP022296 8020EXA	SP022296 8020EXA
Purgeable Hydrocarbons	1.0	640	93	N.D.	N.D.	240	63
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	0.24	0.30
Toluene	0.0050	0.32	N.D.	N.D.	N.D.	0.59	0.42
Ethyl Benzene	0.0050	6.5	0.43	N.D.	N.D.	1.1	0.31
Total Xylenes	0.0050	36	2.7	N.D.	N.D.	1.3	0.41
Chromatogram Pattern:		Gasoline	Gasoline	--	--	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	50	25	1.0	1.0	25	10
Date Analyzed:	2/21/96	2/21/96	2/22/96	2/22/96	2/25/96	2/25/96
Instrument Identification:	HP-4	HP-4	HP-2	HP-2	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	79	84	84	97	91	91

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Feb 15, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Feb 16, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Feb 26, 1996
Attention: Ken Simas	First Sample #:	602-1189	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 602-1189 PL4-1@3.0'	Sample I.D. 602-1190 PL4-2@2.5'	Sample I.D. 602-1191 PL4-3@5'	Sample I.D. 602-1192 PL4-4@5.0'
QC Batch Number:		SP022296 8020EXA	SP022296 8020EXA	SP022296 8020EXA	SP022296 8020EXA
Purgeable Hydrocarbons	1.0	1.4	N.D.	4.3	N.D.
Benzene	0.0050	0.056	N.D.	0.0086	N.D.
Toluene	0.0050	0.078	N.D.	0.0075	N.D.
Ethyl Benzene	0.0050	0.0073	N.D.	0.040	N.D.
Total Xylenes	0.0050	0.042	N.D.	0.058	N.D.
Chromatogram Pattern:		Gasoline	--	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Analyzed:	2/22/96	2/22/96	2/22/96	2/22/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	97	96	105	94

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Feb 15, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Feb 16, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported: Feb 26, 1996
Attention: Ken Simas	First Sample #:	602-1183	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 602-1183 TPSW-1	Sample I.D. 602-1184 TPSE-1	Sample I.D. 602-1185 PL1-1@3.0'	Sample I.D. 602-1186 PL1-2@2.5'	Sample I.D. 602-1187 PL1-3@2.5'	Sample I.D. 602-1188 PL1-5@2'
QC Batch Number:		SP022096 8015EXB	SP022096 8015EXB	SP022096 8015EXB	SP022096 8015EXB	SP022096 8015EXB	SP022096 8015EXB
Extractable Hydrocarbons	1.0	160	160	14	N.D.	37	4.9
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons <C13 >C25	Diesel & Unidentified Hydrocarbons <C13 >C25	Unidentified Hydrocarbons >C20	--	Unidentified Hydrocarbons <C15 >C20	Unidentified Hydrocarbons <C15 >C20

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	5.0	1.0	5.0	1.0
Date Extracted:	2/20/96	2/20/96	2/20/96	2/20/96	2/20/96	2/20/96
Date Analyzed:	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Feb 15, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Feb 16, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported: Feb 26, 1996
Attention: Ken Simas	First Sample #:	602-1189	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 602-1189 PL4-1@3.0'	Sample I.D. 602-1190 PL4-2@2.5'	Sample I.D. 602-1191 PL4-3@5'	Sample I.D. 602-1192 PL4-4@5.0'
QC Batch Number:		SP022096 8015EXB	SP022096 8015EXB	SP022096 8015EXB	SP022096 8015EXB
Extractable Hydrocarbons	1.0	7.7	N.D.	3.0	3.2
Chromatogram Pattern:		Diesel & Unidentified Hydrocarbons >C18	--	Unidentified Hydrocarbons <C15 >C18	Unidentified Hydrocarbons <C15 >C18

Quality Control Data

Report Limit Multiplication Factor:	5.0	1.0	1.0	1.0
Date Extracted:	2/20/96	2/20/96	2/20/96	2/20/96
Date Analyzed:	2/21/96	2/21/96	2/21/96	2/21/96
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #99-105
Sample Descript: Soil
Analysis for: Lead
First Sample #: 602-1183

Sampled: Feb 15, 1996
Received: Feb 16, 1996
Digested: Feb 20, 1996
Analyzed: Feb 21, 1996
Reported: Feb 26, 1996

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
602-1183	TPSW-1	1.0	5.3	ME0220966010MDB	MV-3
602-1184	TPSE-1	1.0	5.8	ME0220966010MDB	MV-3
602-1185	PL1-1@3.0'	1.0	11	ME0220966010MDB	MV-3
602-1186	PL1-2@2.5'	1.0	5.0	ME0220966010MDB	MV-3
602-1187	PL1-3@2.5'	1.0	6.5	ME0220966010MDB	MV-3
602-1188	PL1-5@2'	1.0	8.2	ME0220966010MDB	MV-3
602-1189	PL4-1@3.0'	1.0	9.9	ME0220966010MDB	MV-3
602-1190	PL4-2@2.5'	1.0	5.5	ME0220966010MDB	MV-3
602-1191	PL4-3@5'	1.0	6.3	ME0220966010MDB	MV-3
602-1192	PL4-4@5.0'	1.0	4.6	ME0220966010MDB	MV-3

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #99-105
Matrix: Solid
QC Sample Group: 6021183-192
Reported: Feb 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Diesel	Lead
QC Batch#:	SP022196	SP022196	SP022196	SP022196	SP022096	SP022096	ME022096
Analy. Method:	8020EXA EPA 8020	8020EXA EPA 8020	8020EXA EPA 8020	8020EXA EPA 8020	87015EX B EPA 8015	87015EX B EPA 8015	6010MDB EPA 6010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 3550	EPA 3050
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang	J. Dinsay	J. Dinsay	K. Anderson
MS/MSD #:	6020658	6020658	6020658	6020658	6021146	6021146	6021143
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	33 mg/kg
Prepared Date:	2/21/96	2/21/96	2/21/96	2/21/96	2/20/96	2/20/96	2/20/96
Analyzed Date:	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	HP-3B	MV-3
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	10 mg/kg	50 mg/kg
Result:	0.40	0.41	0.40	1.2	11	13	78
MS % Recovery:	100	103	100	100	110	130	90
Dup. Result:	0.37	0.38	0.37	1.1	12	14	83
MSD % Recov.:	93	95	93	92	120	140	100
RPD:	7.8	7.6	7.8	8.7	8.7	7.4	6.2
RPD Limit:	0-50	0-50	0-50	0-50	0-50	0-50	0-20

LCS #:	2LCS022196	2LCS022196	2LCS022196	2LCS022196	LCS022096	LCS022096	BLK022096
Prepared Date:	2/21/96	2/21/96	2/21/96	2/21/96	2/20/96	2/20/96	2/20/96
Analyzed Date:	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96	2/21/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3A	HP-3B	MV-3
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	10 mg/kg	10 mg/kg	50 mg/kg
LCS Result:	19	20	19	58	10	12	54
LCS % Recov.:	95	100	95	97	100	120	108

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140	50-150	50-150	75-125

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #99-105
Matrix: Solid
QC Sample Group: 6021183-192
Reported: Feb 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP022296	SP022296	SP022296	SP022296
Analy. Method:	8020EXA EPA 8020	8020EXA EPA 8020	8020EXA EPA 8020	8020EXA EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	6020683	6020683	6020683	6020683
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/22/96	2/22/96	2/22/96	2/22/96
Analyzed Date:	2/22/96	2/22/96	2/22/96	2/22/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Result:	0.43	0.44	0.43	1.3
MS % Recovery:	108	110	108	107
Dup. Result:	0.40	0.38	0.39	1.2
MSD % Recov.:	100	95	98	98
RPD:	7.2	15	9.8	9.0
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	1LCS022296	1LCS022296	1LCS022296	1LCS022296
Prepared Date:	2/22/96	2/22/96	2/22/96	2/22/96
Analyzed Date:	2/22/96	2/22/96	2/22/96	2/22/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	23	22	22	65
LCS % Recov.:	115	110	110	108
MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #99-105
Matrix: Solid
QC Sample Group: 6021183-192
Reported: Feb 29, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP022596	SP022596	SP022596	SP022596
	8020EXA	8020EXA	8020EXA	8020EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang
MS/MSD #:	6021186	6021186	6021186	6021186
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/25/96	2/25/96	2/25/96	2/25/96
Analyzed Date:	2/25/96	2/25/96	2/25/96	2/25/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Result:	0.37	0.39	0.38	1.2
MS % Recovery:	93	98	95	100
Dup. Result:	0.37	0.39	0.37	1.2
MSD % Recov.:	93	98	93	100
RPD:	0.0	0.0	2.7	0.0
RPD Limit:	0-50	0-50	0-50	0-50
LCS #:	2LCS022596	2LCS022596	2LCS022596	2LCS022596
Prepared Date:	2/25/96	2/25/96	2/25/96	2/25/96
Analyzed Date:	2/25/96	2/25/96	2/25/96	2/25/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	20	19	58
LCS % Recov.:	95	100	95	97
MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: ALISTO ENGINEERING GROUP
Address: 1575 TREAT BLVD, SUITE 201
City: WALNUT CREEK State: CA Zip: 94598
Tel: (510) 295-1650 Fax.: 295-1823

Station No./Site Address: 99-105, 6301 San Pablo Ave Oakland
Project Contact: Ken Sinas
Mobil Oil Engineer: CHERINE FOUTCH
Sampler(s) (signature): Cynthia Todd

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☒	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	
TPSW-1	SOIL	2/14/96			1			X	X							X			602 1183		
TPE-1		2/14			1			X	X							X			602 1184		
PL1@3.0'		2/14			1			X	X							X			602 1185		
PL1-2@2.5'		2/14			1			X	X							X			602 1186		
PL1-3@2.5'		2/15			1			X	X							X			602 1187		
PL1-5@2'		2/15			1			X	X							X			602 1188		
PL4-1@3.0'		2/11			1			X	X							X			602 1189		
PL4-2@2.5'		2/15			1			X	X							X			602 1190		
PL4-3@5'		2/15			1			X	X							X			602 1191		
PL4-4@5'	▼	2/15			1			X	X							X			602 1192		

Relinquished by: Cynthia Todd Date/Time: 2:02 p 2/16/96
Relinquished by: Date/Time:
Relinquished by: Date/Time:
Relinquished in Lab by: 2/16 1402

Remarks:

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☒ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Turnaround Time: (check one):
Normal X Same day ____
1 day ____ 2 day ____
5 day ____

Sample Integrity:
Intact ____ On Ice ____

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 8, 1996
Attention: Ken Simas	First Sample #:	603-0034	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0034 MW-1 5-5.5'	Sample I.D. 603-0035 MW-1 10-10.5'	Sample I.D. 603-0036 MW-1 15-15.5'	Sample I.D. 603-0037 MW-2 5-5.5'	Sample I.D. 603-0038 MW-2 10-10.5'	Sample I.D. 603-0039 MW-2 15-15.5'
QC Batch Number:		SP030696 8020EXA	SP030696 8020EXA	SP030696 8020EXA	SP030696 8020EXA	SP030696 8020EXA	SP030696 8020EXA
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	220	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	1.2	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	1.4	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	2.7	0.0063
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.	14	0.035
Chromatogram Pattern:		--	--	--	--	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	50	1.0
Date Analyzed:	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96
Instrument Identification:	HP-4	HP-4	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	100	108	108	108	115	102

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

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SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

6030034.ALS <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 8, 1996
Attention: Ken Simas	First Sample #:	603-0040	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0040 MW-3 5.5-6'	Sample I.D. 603-0041 MW-3 10.5-11'	Sample I.D. 603-0042 MW-3 15.5-16'	Sample I.D. 603-0043 MW-4 5.5-6'	Sample I.D. 603-0044 MW-4 10.5-11'	Sample I.D. 603-0045 MW-4 15.5-16'
QC Batch Number:		SP030696 8020EXA	SP030696 8020EXA	SP030696 8020EXA	SP030696 8020EXA	SP030796 8020EXA	SP030796 8020EXA
Purgeable Hydrocarbons	1.0	N.D.	53	N.D.	280	5.8	5.6
Benzene	0.0050	N.D.	0.32	N.D.	1.2	0.11	0.076
Toluene	0.0050	N.D.	0.43	N.D.	1.0	N.D.	0.023
Ethyl Benzene	0.0050	N.D.	0.65	N.D.	4.1	0.11	0.083
Total Xylenes	0.0050	N.D.	0.93	N.D.	19	0.093	0.070
Chromatogram Pattern:		--	Gasoline	--	Gasoline	Gasoline	Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0	50	1.0	20	1.0	1.0
Date Analyzed:	3/6/96	3/6/96	3/6/96	3/6/96	3/7/96	3/7/96
Instrument Identification:	HP-4	HP-4	HP-4	HP-5	HP-5	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	102	105	105	132	75	82

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

6030034.ALS <2>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Mar 8, 1996
Attention: Ken Simas	First Sample #:	603-0046	

QC Batch Number: SP030796

8020EXA

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0046 SPPL4(1-4)
Purgeable Hydrocarbons	1.0	9.0
Benzene	0.0050	0.013
Toluene	0.0050	0.030
Ethyl Benzene	0.0050	0.13
Total Xylenes	0.0050	0.054
Chromatogram Pattern:		Gasoline

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	3/7/96
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	78

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported: Mar 8, 1996
Attention: Ken Simas	First Sample #:	603-0034	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0034 MW-1 5-5.5'	Sample I.D. 603-0035 MW-1 10-10.5'	Sample I.D. 603-0036 MW-1 15-15.5'	Sample I.D. 603-0037 MW-2 5-5.5'	Sample I.D. 603-0038 MW-2 10-10.5'	Sample I.D. 603-0039 MW-2 15-15.5'
QC Batch Number:		SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA
Extractable Hydrocarbons	1.0	3.4	N.D.	4.2	2.4	57	N.D.
Chromatogram Pattern:		Unidentified Hydrocarbons >C20	--	Unidentified Hydrocarbons >C20	Unidentified Hydrocarbons >C20	Diesel & Unidentified Hydrocarbons <C15 and >C20	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96
Date Analyzed:	3/7/96	3/7/96	3/7/96	3/7/96	3/7/96	3/7/96
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled: Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received: Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported: Mar 8, 1996
Attention: Ken Simas	First Sample #:	603-0040	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0040 MW-3 5.5-6'	Sample I.D. 603-0041 MW-3 10.5-11'	Sample I.D. 603-0042 MW-3 15.5-16'	Sample I.D. 603-0043 MW-4 5.5-6'	Sample I.D. 603-0044 MW-4 10.5-11'	Sample I.D. 603-0045 MW-4 15.5-16'
QC Batch Number:		SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA	SP030696 8015EXA
Extractable Hydrocarbons	1.0	1.1	72	N.D.	34	7.7	2.1
Chromatogram Pattern:		Discrete Peaks	Unidentified Hydrocarbons <C15 and >C20	--	Diesel & Unidentified Hydrocarbons <C15	Unidentified Hydrocarbons <C15	Discrete Peaks

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Extracted:	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96
Date Analyzed:	3/7/96	3/7/96	3/7/96	3/7/96	3/7/96	3/7/96
Instrument Identification:	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled:	Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Soil	Received:	Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3550/8015 Mod.	Reported:	Mar 8, 1996
Attention: Ken Simas	First Sample #:	603-0046		

QC Batch Number: SP030696

8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 603-0046 SPPL4(1-4)
Extractable Hydrocarbons	1.0	11

Chromatogram Pattern: Diesel

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Extracted:	3/6/96
Date Analyzed:	3/7/96
Instrument Identification:	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled:	Mar 1, 1996
1575 Treat Blvd., Ste. 201	Matrix Descript:	Soil	Received:	Mar 1, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 413.2 (I.R.)	Extracted:	Mar 7, 1996
Attention: Ken Simas	First Sample #:	603-0040	Analyzed:	Mar 7, 1996
			Reported:	Mar 8, 1996

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)	Detection Limit Multiplication Factor	QC Batch Number
603-0040	MW-3 5.5-6'	9.0	1.0	SP0307964132MDA
603-0041	MW-3 10.5-11'	290	1.0	SP0307964132MDA
603-0042	MW-3 15.5-16'	10	1.0	SP0307964132MDA

Detection Limits:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Allsto Engineering Group	Client Project ID:	Mobil #99-105	Sampled:	Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Descript:	Soil	Received:	Mar 1, 1996
Walnut Creek, CA 94598	Analysis for:	Lead	Digested:	Mar 4, 1996
Attention: Ken Simas	First Sample #:	603-0034	Analyzed:	Mar 7, 1996
			Reported:	Mar 8, 1996

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
603-0034	MW-1 5-5.5'	2.5	N.D.	ME0304966010MDA	MV-1
603-0035	MW-1 10-10.5'	2.5	N.D.	ME0304966010MDA	MV-1
603-0036	MW-1 15-15.5'	2.5	N.D.	ME0304966010MDA	MV-1
603-0037	MW-2 5-5.5'	2.5	N.D.	ME0304966010MDA	MV-1
603-0038	MW-2 10-10.5'	2.5	N.D.	ME0304966010MDA	MV-1
603-0039	MW-2 15-15.5'	2.5	N.D.	ME0304966010MDA	MV-1
603-0040	MW-3 5.5-6'	2.5	N.D.	ME0304966010MDA	MV-1
603-0041	MW-3 10.5-11'	2.5	N.D.	ME0304966010MDA	MV-1
603-0042	MW-3 15.5-16'	2.5	N.D.	ME0304966010MDA	MV-1
603-0043	MW-4 5.5-6'	2.5	N.D.	ME0304966010MDA	MV-1
603-0044	MW-4 10.5-11'	2.5	N.D.	ME0304966010MDA	MV-1

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Alisto Engineering Group	Client Project ID:	Mobil #99-105	Sampled:	Mar 1, 1996
1575 Treat Blvd., Ste. 201	Sample Descript:	Soil	Received:	Mar 1, 1996
Walnut Creek, CA 94598	Analysis for:	Lead	Digested:	Mar 4, 1996
Attention: Ken Simas	First Sample #:	603-0045	Analyzed:	Mar 7, 1996
			Reported:	Mar 8, 1996

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg	QC Batch Number	Instrument ID
603-0045	MW-4 15.5-16'	2.5	N.D.	ME0304966010MDA	MV-1
603-0046	SPPL4 (1-4)	2.5	N.D.	ME0304966010MDA	MV-1

. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #99-105
Matrix: Solid
QC Sample Group: 6030034-046
Reported: Mar 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Oil & Grease	Lead
QC Batch#:	SP030696	SP030696	SP030696	SP030696	SP030696	SP030796	ME030496
	8020EXA	8020EXA	8020EXA	8020EXA	8015EXA	4132MDA	6010MDA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 413.2	EPA 7420
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3550	EPA 3510	EPA 3050
Analyst:	L. Huang	L. Huang	L. Huang	L. Huang	J. Dinsay	I.Dalvand	T. Le
MS/MSD #:	6021871	6021871	6021871	6021871	6030036	6030040	6030034
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	4.2 mg/kg	9.0 mg/kg	N.D.
Prepared Date:	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96	3/7/96	3/4/96
Analyzed Date:	3/6/96	3/6/96	3/6/96	3/6/96	3/7/96	3/7/96	3/7/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3B	Miran 1A	MV-1
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/kg	125 mg/kg	50 mg/kg
Result:	0.50	0.53	0.52	1.6	8.1	140	58
MS % Recovery:	125	133	130	133	39	108	116
Dup. Result:	0.47	0.50	0.48	1.5	8.0	140	38
MSD % Recov.:	118	125	120	125	38	108	76
RPD:	6.2	5.8	8.0	6.5	1.2	0.0	42
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-30	0-20

LCS #:	2LCS030696	2LCS030696	2LCS030696	2LCS030696	LCS030696	BLK030796	BLK030496
Prepared Date:	3/6/96	3/6/96	3/6/96	3/6/96	3/6/96	3/7/96	3/4/96
Analyzed Date:	3/6/96	3/6/96	3/6/96	3/6/96	3/7/96	3/7/96	3/7/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	HP-3B	Miran 1A	MV-1
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	10 mg/kg	125 mg/kg	50 mg/kg
LCS Result:	18	19	18	56	7.2	140	50
LCS % Recov.:	90	95	90	93	72	112	100

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140	50-150	70-130	75-125

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Ken Simas

Client Project ID: Mobil #99-105
Matrix: Solid

QC Sample Group: 6030034-046

Reported: Mar 8, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	SP030796	SP030796	SP030796	SP030796
	8020EXA	8020EXA	8020EXA	8020EXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	L,. Huang	L,. Huang	L,. Huang	L,. Huang
MS/MSD #:	6021871	6021871	6021871	6021871
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/7/96	3/7/96	3/7/96	3/7/96
Analyzed Date:	3/7/96	3/7/96	3/7/96	3/7/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Result:	0.33	0.34	0.35	1.1
MS % Recovery:	83	85	88	92
Dup. Result:	0.32	0.32	0.33	1.0
MSD % Recov.:	80	80	83	83
RPD:	3.1	6.1	5.9	9.5
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	3LCS030796	3LCS030796	3LCS030796	3LCS030796
Prepared Date:	3/7/96	3/7/96	3/7/96	3/7/96
Analyzed Date:	3/7/96	3/7/96	3/7/96	3/7/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	18	18	19	57
LCS % Recov.:	90	90	95	95

MS/MSD LCS Control Limits	55-145	47-149	47-155	56-140

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

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1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

1

Mobil Oil Consulting Firm: ALISTO ENGINEERING GROUP
Address: 1575 TREAT BLVD, SUITE 201
City: CONCORD State: CA Zip: 94598
Tel: (510) 295-1650 Fax.: (510) 295-1823

Station No./Site Address: 99-105, 6301 San Pablo Ave, OKLD
Project Contact: Ken Simas
Mobil Oil Engineer: Cherine Fowler
Sampler(s) (signature): Christine Todd

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 Gas ☐ Diesel ☒	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 TTLC ☐ STLC ☐	Lead Org./DHS ☐ Lead Total ☒	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	
MW-1 5-5.5'	SOIL	3/1/96		N/A	1	4oz		X	X	X						X					6030034
MW-1 10-10.5'																					6030035
MW-1 15-15.5'																					6030036
MW-2 5-5.5'																					6030037
MW-2 10-10.5'																					6030038
MW-2 15-15.5'																					6030039
MW-3 5.5-6'										X											6030040
MW-3 10.5-11'										X											6030041
MW-3 15.5-16'										X											6030042

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☒ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by: Christine Todd Date/Time: 3/1/96 16:25
Relinquished by: Date/Time:
Relinquished by: Date/Time:
Remarks:

Relinquished by: Date/Time:
Relinquished by: Date/Time:
Relinquished in Lab by: [signature] Date/Time: 3/1/96 16:25

Turnaround Time: (check one)
Normal ____ Same day ____
1 day ____ 2 day ____
5 day ____

Sample Integrity:
Intact ____ On Ice ____

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

680 Chesapeake Drive, Redwood City, 406 (415) 9600 (41 4-92
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1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

2

Mobil Oil Consulting Firm: ALISTO ENGINEERING GROUP
Address: 1575 TREAT BLVD, SUITE 201
City: Walnut Creek State: CA Zip: 94598
Tel: (510) 295-1650 Fax.: (510) 295-1823

Station No./Site Address: 99-105, 6301 San Pablo Ave, OKLD
Project Contact: Ken Simas
Mobil Oil Engineer: Cherine Fowler
Sampler(s) (signature): Christine Todd

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX -TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 ☐ Gas ☒ Diesel	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 ☐ TTLC ☐ STLC	Lead Org./DHS ☐ Lead Total ☒	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent
MW-4 5.5-6'	SOIL	3/1/96		N/A	1	Sleeve		X	X							X				6030043
MW-4 10.5-11'	↓	↓		↓	↓	↓		↓	↓							↓				6030044
MW-4 15.5-16'	↓	↓		↓	↓	↓		↓	↓							↓				6030045
SPPL4-(1-4)	↓	↓		↓	4	↓		↓	↓				6030046		A-D	↓	(Composite)			

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☒ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by: Christine Todd Date/Time: 3/1/96 1625
Relinquished by: Date/Time:
Relinquished by: Date/Time:
Relinquished in Lab by: Date/Time: 3/1/96 16:25
Remarks:

Turnaround Time: (check one):
Normal ___ Same day ___
1 day ___ 2 day ___
5 day X

Sample Integrity:
Intact ___ On Ice ___

Sequoia Analytical

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Christine Ladd

Client Project ID: Mobil , 6301 San Pablo Ave.
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 603-1241

Sampled: Mar 14, 1996
Received: Mar 15, 1996
Reported: Mar 22, 1996

QC Batch Number:	GC032096 802002A	GC032096 802002A	GC032096 802011A	GC032096 802011A	GC032096 802011A	GC032096 802011A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 603-1241 MW-4	Sample I.D. 603-1242 MW-1	Sample I.D. 603-1243 MW-2	Sample I.D. 603-1244 MW-3	Sample I.D. 603-1245 QC-1	Sample I.D. 603-1246 QC-2
Purgeable Hydrocarbons	50	12,000	610	560	4,200	4,100	N.D.
Benzene	0.50	2,200	0.75	2.0	220	200	N.D.
Toluene	0.50	140	0.54	0.96	30	27	N.D.
Ethyl Benzene	0.50	880	1.5	4.3	140	120	N.D.
Total Xylenes	0.50	2,000	59	11	520	480	N.D.
Chromatogram Pattern:		Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	--

Quality Control Data

Report Limit Multiplication Factor:	100	1.0	1.0	10	10	1.0
Date Analyzed:	3/20/96	3/20/96	3/20/96	3/20/96	3/20/96	3/20/96
Instrument Identification:	HP-2	HP-2	HP-11	HP-11	HP-11	HP-11
Surrogate Recovery, %: (QC Limits = 70-130%)	112	105	105	104	104	99

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

RECEIVED
MAR 28 1996

6031241.ALS <1>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil , 6301 San Pablo Ave.	Sampled: Mar 14, 1996
1575 Treat Blvd., Ste. 201	Sample Descript:	Water	Received: Mar 15, 1996
Walnut Creek, CA 94598	Analysis for:	MTBE (Modified EPA 8020)	
Attention: Christine Ladd	First Sample #:	603-1241	Analyzed: Mar 20, 1996
			Reported: Mar 22, 1996

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit µg/L	Sample Result µg/L	QC Batch Number	Instrument ID
603-1241	MW-4	60	74	GC032096802002A	HP-2
603-1242	MW-1	0.60	N.D.	GC032096802002A	HP-2
603-1243	MW-2	0.60	1.3	GC032096802011A	HP-11
603-1244	MW-3	0.60	21	GC032096802011A	HP-11
603-1245	QC-1	0.60	23	GC032096802011A	HP-11
603-1246	QC-2	0.60	N.D.	GC032096802011A	HP-11

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

6031241.ALS <2>

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil , 6301 San Pablo Ave.	Sampled: Mar 14, 1996
1575 Treat Blvd., Ste. 201	Sample Matrix:	Water	Received: Mar 15, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 3510/8015 Mod.	Reported: Mar 22, 1996
Attention: Christine Ladd	First Sample #:	603-1241	

QC Batch Number: SP031996 8015EXA | SP031996 8015EXA | SP031996 8015EXA | SP031996 8015EXA

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 603-1241 MW-4	Sample I.D. 603-1242 MW-1	Sample I.D. 603-1243 MW-2	Sample I.D. 603-1244 MW-3
Extractable Hydrocarbons	50	3,500	450	250	1,200
Chromatogram Pattern:		Unidentified Hydrocarbons <C9	Unidentified Hydrocarbons <C9	Unidentified Hydrocarbons <C9	Unidentified Hydrocarbons <C9

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0
Date Extracted:	3/19/96	3/19/96	3/19/96	3/19/96
Date Analyzed:	3/20/96	3/20/96	3/20/96	3/20/96
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil , 6301 San Pablo Ave.	Sampled: Mar 14, 1996
1575 Treat Blvd., Ste. 201	Matrix Descript:	Water	Received: Mar 15, 1996
Walnut Creek, CA 94598	Analysis Method:	EPA 413.2 (I.R.)	Extracted: Mar 22, 1996
Attention: Christine Ladd	First Sample #:	603-1244	Analyzed: Mar 22, 1996
			Reported: Mar 25, 1996

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/L (ppm)	Detection Limit Multiplication Factor	QC Batch Number
603-1244	MW-3	N.D.	1.0	SP0322964132MDA

Detection Limits:	**5.0**

- Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

6031241.ALS <4>

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Alisto Engineering Group	Client Project ID:	Mobil , 6301 San Pablo Ave.	Sampled: Mar 14, 1996
1575 Treat Blvd., Ste. 201	Sample Descript:	Water	Received: Mar 15, 1996
Walnut Creek, CA 94598	Analysis for:	Lead	Digested: Mar 19, 1996
Attention: Christine Ladd	First Sample #:	603-1241	Analyzed: Mar 21, 1996
			Reported: Mar 22, 1996

LABORATORY ANALYSIS FOR: Lead

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
603-1241	MW-4	0.010	N.D.	ME0319962007MDA	MV-3
603-1242	MW-1	0.010	N.D.	ME0319962007MDA	MV-3
603-1243	MW-2	0.010	N.D.	ME0319962007MDA	MV-3
603-1244	MW-3	0.010	N.D.	ME0319962007MDA	MV-3

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Christine Ladd

Client Project ID: Mobil , 6301 San Pablo Ave.
Matrix: Liquid

QC Sample Group: 6031241-246

Reported: Mar 25, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Lead
QC Batch#:	GC032096	GC032096	GC032096	GC032096	SP031996	ME031996
	802002A	802002A	802002A	802002A	8015EXA	2007MDA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 200.7
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	EPA 200.7
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Le	J. Kelly
MS/MSD #:	6031068	6031068	6031068	6031068	BLK031996	6031073
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/19/96	3/19/96
Analyzed Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/20/96	3/21/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B	MV-3
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	1.0 mg/L
Result:	22	21	22	63	230	0.96
MS % Recovery:	110	105	110	105	78	96
Dup. Result:	23	22	23	68	270	0.93
MSD % Recov.:	115	110	115	113	92	93
RPD:	4.4	4.7	4.4	7.6	15	3.2
RPD Limit:	0-20	0-20	0-20	0-20	0-50	0-20

LCS #:	1LCS032096	1LCS032096	1LCS032096	1LCS032096	LCS031996	BLK031996
Prepared Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/19/96	3/19/96
Analyzed Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/20/96	3/21/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3B	MV-3
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	1.0 mg/L
LCS Result:	23	22	23	67	250	0.96
LCS % Recov.:	115	110	115	112	85	96

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	50-150	75-125

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

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Alisto Engineering Group
1575 Treat Blvd., Ste. 201
Walnut Creek, CA 94598
Attention: Christine Ladd

Client Project ID: Mobil , 6301 San Pablo Ave.
Matrix: Liquid
QC Sample Group: 6031241-246
Reported: Mar 25, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Oil & Grease
QC Batch#:	GC032096	GC032096	GC032096	GC032096	SP032296
	802011A	802011A	802011A	802011A	4132MDA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 413.2
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	I.Dalvand
MS/MSD #:	6030381	6030381	6030381	6030381	BLK032296
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/22/96
Analyzed Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/22/96
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11	Miran 1A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	5.0 mg/L
Result:	21	18	20	58	5.5
MS % Recovery:	105	90	100	97	110
Dup. Result:	21	18	19	56	5.5
MSD % Recov.:	105	90	95	93	110
RPD:	0.0	0.0	5.1	3.5	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-30

LCS #:	1LCS032096	1LCS032096	1LCS032096	1LCS032096	LCS032296
Prepared Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/22/96
Analyzed Date:	3/20/96	3/20/96	3/20/96	3/20/96	3/22/96
Instrument I.D.#:	HP-11	HP-11	HP-11	HP-11	Miran 1A
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	5.0 mg/L
LCS Result:	24	21	22	66	5.6
LCS % Recov.:	120	105	110	110	112

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120	70-130

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SEQUOIA ANALYTICAL
CHAIN OF CUSTODY

[redacted] 68[redacted]esa[redacted] Dri[redacted] Redv[redacted] City[redacted] 940[redacted] (415) [redacted] 960[redacted] FAX (4[redacted] 364-9[redacted]

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☐ 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Mobil Oil Consulting Firm: Alisto Engineering	Station No./Site Address: 6301 San Pablo Ave
Address: 1575 Tice Blvd	Project Contact: Christine Hadd
City: Walnut Creek State: CA Zip: 94598	Mobil Oil Engineer: Steve Pro
Tel: (510) 295 1650 Fax: (510) 295 1923	Sampler(s) (signature):

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	BTEX - EPA 602/8020	BTEX - TPH EPA M602/8015/8020 (GAS)	TPH EPA Modified 8015 ☒ Gas ☐ Diesel	Oil & Grease - EPA 413.2	TPH - EPA 418.1	EPA 601/8010	EPA 624/8240	EPA 625/8270	Title 22 Metals EPA 6010/7000 ☐ TTLC ☐ STLC	Lead Org./DHS ☐ Lead Total	EDB/DBCD - EPA 504	pH	Bioassay - Title 22 Haz. Waste	Bioassay - Effluent	Tc+91 Lead
MW-4	H2O	3/14/96	1310	HCl/HNO3	6	VOA/2		X	X					6031241			AF				X
MW-1			1325											6031242							
MW-2			1340											6031243							
MW-3			1500	HCl/HNO3	7					X				6031244			AG				
QC-1			—	HCl	3	VOA								6031245			AC				
QC-2			—		3	VOA								6031246							

CODING (check one)

- Code 1 ☐ Emergency Response
- Code 2 ☐ Site Assessment
- Code 3 ☐ Remediation (Plan Devlpmt.)
- Code 4 ☐ Active Remed. (Install./Start-up)
- Code 5 ☐ Active Remed. (O & M)
- Code 6 ☐ Passive Remed/ Monitoring
- Code 7 ☐ Closure 5-8-03
- Code 8 ☐ Construction
- Code 9 ☐ Litigation/Claims Fines

Relinquished by:	Date/Time: 3/15/96 0930
Relinquished by:	Date/Time: 3/15/96 1420
Relinquished by:	Date/Time:
Remarks:	

Relinquished by:	Date/Time: 3/15/96 0930
Relinquished by:	Date/Time:
Relinquished in Lab by:	Date/Time: 3/15 1420

Turnaround Time: (check one)
Normal ____ Same day ____
1 day ____ 2 day ____
5 day ____ STAT

Sample Integrity:
Intact ____ On Ice ____